

Panaji, 11th May, 2023 (Vaisakha 21, 1943)

SERIES I No. 6

OFFICIAL GOVERNMENT OF GOA GAZETTE



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SUPPLEMENT

GOVERNMENT OF GOA

Department of Revenue

Notification

No. 1/5/7/2018-RD(VOL.I)/4861

The Government of Goa is pleased to notify the Local Contingency Plan (LCP) for Mass Rescue Operations (MRO) at Sea for the State of Goa.

The Notification of the above Local Contingency Plan on Mass Rescue Operation at Sea for the State of Goa will come into force with effect from the date of publication in Official Gazette.

By order and in the name of the Governor of Goa.

Durga Kinlekar, Under Secretary (Revenue-II)/link.

Porvorim, 04th May, 2023.

Introduction:

The State of Goa has about 555 km of Inland Waterways out of which only 255 km are navigable through the Rivers Mandovi, Zuari and their tributaries. Out of their total length the better part is being used by the mining and export Industry for transportation of Iron ore to the port of Mormugao and Panaji outer anchorage, from the loading points in the hinterlands.

The coast line of Goa is nearly 108 kilometres with the Terekhol River separating Goa and Maharashtra. In the south Galjibag river is the last river in the Canacona Taluka. The major rivers and ports of the State include:

S.No	Rivers	Major Ports	Minor Ports	Ports with majority of MRO & Evacuation
1.	a) Mandovi b) Zuari c) Sal d) Terekhol e) Chapora f) Talpona.	a) Mormugao Port	a) Panjim Port b) Terekhol c) Chapora d) Betul e) Talpona	a) Mormogao Port Authority-MPA b) Panaji port



Figure 1: Rivers of Goa

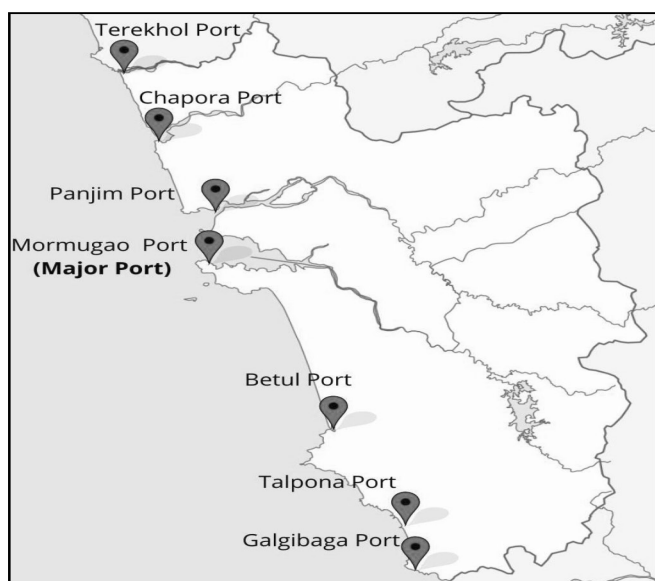


Figure 2: Ports of Goa
Summary of the Major Ports

Mormugao Port:

- **Location:** On the southern shore of Mormugao Bay at the mouth of the River Zuari on the west coast, 220 n.m. SSE of Mumbai.
- **Latitude / Longitude:** 15.414° / 73.81°
- **Local Time:** 2022-06-06 16:57 (UTC +5)
- **Vessels in Port:** 21
- **Expected Arrivals:** 10
- **Related Anchorage:** MORMUGAO ANCH
- **Port Limits:** Limits include all navigable waters of the River Zuari, west of Agacaim-Cortalim ferry.

Summary	
Max. Size	
Anchorage:	Depth 22.0 m.
Channel:	Depth 13.1 m.
Breakbulk:	Draft 13.1 m.
Containers:	Draft 12.8 m.
Passengers:	LOA ¹ 260 m., draft 8.5 m. Bulk: 275,000 d.w.t., LOA 335 m., beam 50.0 m., draft 14.0 m.
Tankers:	LOA 190 m., draft 12.0 m.
Largest Vessel:	274,326 d.w.t., LOA 335 m., draft 12.29 m.
Fuel:	Available.
Airport:	Goa Int'l, 8 km. Mumbai Int'l, 440 km.
Repairs/Dry-docks:	Shiplift, capacity 6,000 tonnes.
Medical:	Facilities available.

Panaji Port:

Panaji is anchorage port which can handle vessels up to LOA 280m. The principal exports are cotton, salt and seeds; the main imports are piece goods, kerosene, pig iron, coal, lime, iron ore, etc. Traffic figures: Approximately 210 vessels visit the port annually. Load line zone: Arabian Sea Seasonal Tropical Area, Tropical Sep 1 to May 31, Summer Jun 1 to Aug 31. Max size: Anchorage: Max LOA 280m, beam 46m, draught 17.0m, 155,474DWT².

The Captain of Ports Department:

The Captain of Ports Department is headed by the Captain of Ports with its headquarters at Panaji, Goa. He is the overall controlling authority of the department. Besides there are sub offices at Mormugao-Dy. Captain of Ports, at Britona-Marine Slipway & Maritime School, at Chapora, Betul and Talpona-Marine Secretary.

¹ LOA-Length Overall

² DWT-Deadweight Tonnage

1. Activation:

- a) For a swift, effective and timely response, Coast Guard at Sea as the lead agency shall immediately activate the respective State Nodal Agency (Incident Response System at State Level) to prepare for Mass Rescue Operation.
- b) Once intimated by the Coast Guard, the State Nodal Agency in turn shall immediately activate all the respective stakeholders/agencies as per the demand of the situation to ensure the Mass Rescue Operation is carried out effectively and successfully.
- c) The Collectorate North and South will activate all their agencies/stake holders in their respective Districts such as, Mormugao Port Authority, Captain of Ports, Coastal Police, Traffic Police, Health Department, Fire Services and other agencies involved in Rescue operation according to the location of the incident.
- d) The mass casualties shall be landed to the nearest possible site based on weather conditions and availability of resources. Since, Mormugao are the two major landing sites however, the beach areas of Goa can also be utilised for landing casualties based on favourable weather conditions.
- e) The minor ports including Terekhol, Chapora, Betul, Talpona shall be accessible only by smack crats from their respective rivers and major rescue vessels may not be able to enter these rivers due to restriction by sand bars at the mouth of their rivers.
- f) The safe draft available in the entrance channel of these rivers during fair seasons is 1.5 meters. Only experienced masters, who know the entrance of the channel of these rivers thoroughly, should be allowed to enter these minor ports.

2. MRO Contingency Plan**(a) Objective of Plan –**

- Main objectives of the plan are to prepare a comprehensive contingency plan for large scale rescue capabilities at sea.
- The mass rescue efforts in all these coastal zone needs a coordinated and planned response.
- The State Mass Rescue Operation Contingency Plan (MRO-Goa) is therefore designed to provide a simple and operationally flexible mass rescue contingency plan to effectively respond to all major distress situations at sea in the Search and Rescue Region (SRR) of Goa.
- The MRO (Goa) manual covers important aspects of coordinated mass rescue operation including the scope, AOR, rescue procedures, documentation, training and media interaction.

(b) Aim –

- The Mass Rescue Contingency Plan aims to ensure prompt and coordinated response to mass rescue operation for saving of lives at sea.
- Potential disastrous consequences of poor preparations for MROs in terms of loss of life and other adverse results are enormous.
- Major incidents may involve hundreds or thousands of persons in distress in remote and hostile environments.
- A large passenger ship collision, a downed aircraft, or a terrorist incident could, for example, call for the immediate rescue of large numbers of passengers and crew in poor environmental conditions, with many of the survivors having little ability to help themselves and the dire results of failure are evident.

(c) Location –

The State of Goa lies in the tropical zone and is a western coastal state of India by the Arabian Sea with a hot and humid climate for most of the year. It encompasses an area of 3,702 km² (1,429 sq mi). It lies between the latitudes 14°53'54" N and 15°40'00" N and longitudes 73°40'33" E and 74°20'13" E.

The State has a coastline of 108 km. The main rivers include Mandovi, the Zuari, the Terekhol, Chapora River and the Sal. The Mormugao harbor on the mouth of the river Zuari is one of the best natural harbors in South Asia. The Zuari and the Mandovi are the lifelines of Goa, with their tributaries draining 69% of its geographic area. These rivers are one of the busiest rivers in India. Goa has more than 40 estuarine, 08 marine and about 90 riverine islands. The total navigable length of Goa's rivers is 253 km (157 miles).

The state is divided into two districts: North Goa and South Goa. Panaji is the headquarters of the north Goa district and Margao of the south district. Each district is governed by a district collector, an administrator appointed by the Indian government.

The districts are further divided into twelve talukas – Talukas of North Goa are Bardez, Bicholim, Pernem, Sattari and Tiswadi, the talukas of South Goa are Canacona, Ponda, Mormugao, Quepem, Salcete and Sanguem. Headquarters of the respective talukas are Mapusa, Bicholim, Pernem, Valpoi, Panjim, Chaudi, Vasco, Quepem, Margao and Sanguem. Goa's major cities include Vasco, Margao, Mormugao, Panaji and Mapusa.

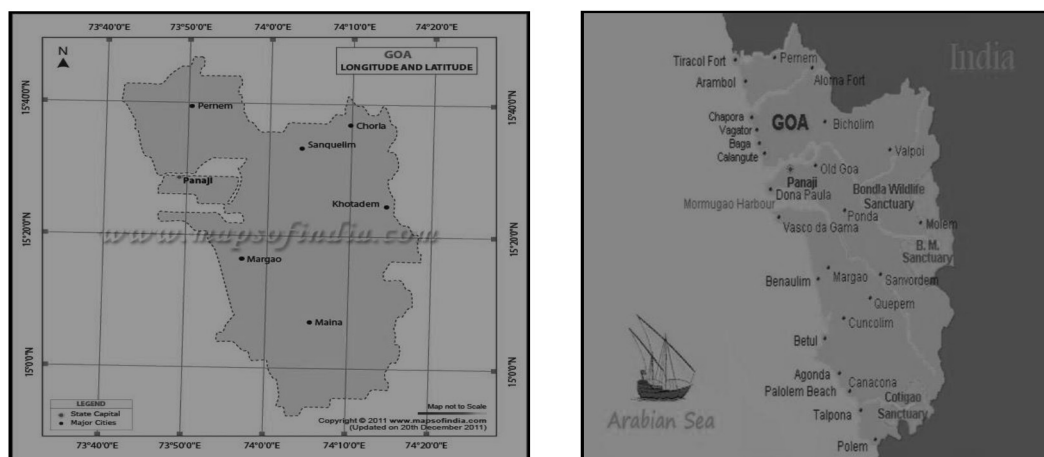
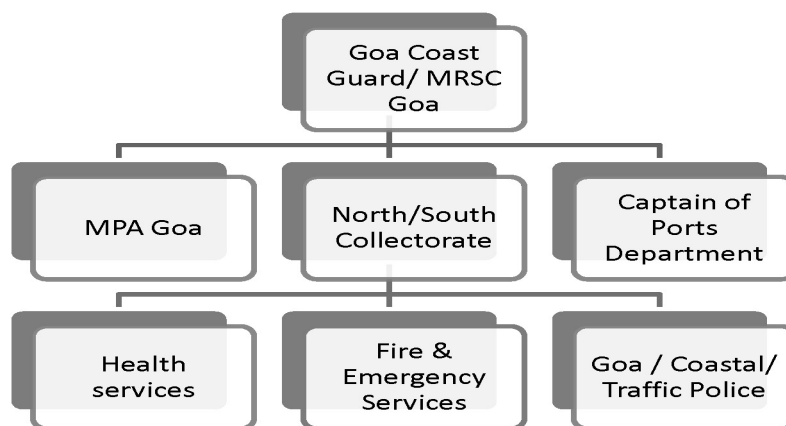


Figure 3: Geographical Map of Sea Area

(d) Design of MRO Contingency Plan -

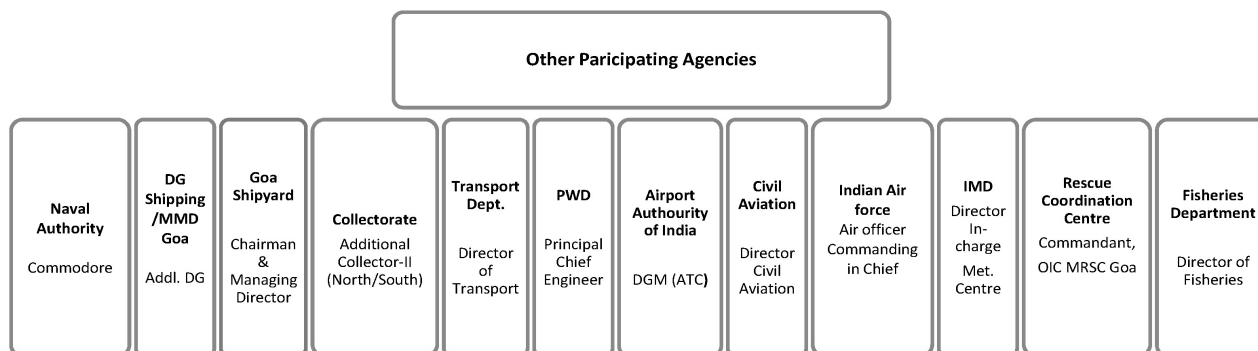


Flow Chart 1: Lead Agencies

i. Lead Agencies & capabilities:

Sl. No.	Lead Agencies	Capabilities
1.	Goa Coast Guard	Being the Nodal Agency for Search and rescue operation at sea in Indian SRR should actively participate with the crisis management team for effective control over mass rescue operation
2.	North/South Collectorate Goa	<ol style="list-style-type: none"> 1. Crisis Management in case of Mass Rescue Operation at sea i.e. arrange for rescue, relief. 2. Arrange for Risk Management by coordinating among all concerned departments of the State Government. 3. Preparation of Mass Rescue Operation Contingency Plan at Sea. 4. Promoting the culture of preparedness, mitigation & prevention for Mass Rescue Operation at Sea.

		5. Documentation of the resources available with the Private Companies/PSUs for an effective and timely response to the disasters.
3.	Captain of Ports / MPA Goa	<ol style="list-style-type: none"> 1. Should be bound to possess rescue boats equipped with accessories needed to combat Mass Rescue Operation at sea. 2. The location for keeping the equipped rescue boats may be from where immediate deployment of boats may be undertaken. 3. The equipment as well as personnel should be a part of the crisis management team and kept in readiness state to handle rescue operation under the guidance of the nodal officer selected for the purpose by the state administration. 4. The team should also be prepared to help in fighting the menace till the operation is over.
4.	Goa Police Department	The Police Authority on receipt of information should send their personnel for joining the crisis management group and help in cordoning off the area and taking control of the law and order situation by removing people from the area as well as marking the designated area.
5.	Marine Police / Coastal Police	Marine police along with boats should be alert to deploy their boats with additional manpower to carry out rescue operation and to assist other agencies involved in the operation.
6.	Directorate of Fire & Emergency Services	<ul style="list-style-type: none"> • On receipt of information for any fatal incident at sea should immediately contact the concerned. On scene Commander (OSC) and assess the requirement of support, if needed and remain on standby. • In case of onshore incidents, the DFES Team will carry out necessary Fire Fighting, Salvage or Rescue Operations as per the situation.
7.	Health Department	Should also actively participate in treating the persons affected by the incident.



Flow Chart 2: Other Participating Agencies

i. Other Participating Agencies:

S. No.	Agency	Name	Designation	Contact (Mob/office)
1.	Naval Authority	Shri. Ashish Goyal	Commodore	08322582866/2582200
2.	DG Shipping/MMD Goa	Shri Kumar Sanjay Bariar	Addl. DG	91-22 25752040/41 /42/43/45
3.	Goa Shipyard	Shri. T.N. Sudhakar	Chairman & Managing Director (Additional Charge)	+91-832-2513943/2511388
4.	Collectorate	Shri. Deepak Dessai	Additional Collector-II (South)	9422059555
		Shri. Kedar Naik	Additional Collector-II (North)	9822383488
5.	Transport Dept.	Shri Rajan Satardekar	Dir. Transport Dept.	08322225724
6.	PWD	Shri. Uttam P. Parsekar	Principal Chief Engineer	9325379313
7.	Airport Authority of India	Shri. R. K. Drivedi,	DGM (ATC)	9975100211
8.	Civil Aviation	Dr. Suresh Shanbhogue	Director Civil Aviation	0832 – 2419542, 2419543
9.	India Air force	Mrs. G.S. Lekshmi	DGM (Ops)	9495833668
10.	IMD	Dr. Rajeshree V P. M , Scientist	Director of I.M.D, Goa.	9821794140 0832-2425547/ 0832-2420161
11.	Coordination Centre MRSC (Goa)	Shri. Ashish Khosla	Commandant, OIC MRSC Goa	0832-2950274, 2950275
12.	Fisheries Department	Dr. Shamila Monteiro,	Director of Fisheries	9326125026

i. Other Participating Agencies & capabilities:

Sl. No.	Other Participating Agencies	Capabilities
1.	Naval Authority	Should also be kept on high alert for participating in the mass rescue operation. Navy should deploy their equipped vessels immediately soon after receipt of information.
2.	DG Shipping/ MMD Goa	Should be on high alert for participating in the MRO. Should divert all merchant ships in the vicinity of incident to assist the MRO at sea.
3.	Goa Shipyard	Should take appropriate measures to provide all support pertaining to mass rescue operation at sea.
4.	Deputy Collectors, Mamlatdars, Joint Mamlatdars, Block Development Officers, Panchayat Secretaries, Chief Officers of Municipalities (Local Administration)	Would be required to maintain close liaison with the crisis management team and concerned officials leading the district offices as also with the State Government and provide manpower, machinery, equipment etc. needed for effective control of mass rescue operation.
5.	Transport Department	Should be ready to requisition different types of vehicles and provide them during any emergency. Providing KTC buses, etc.
6.	Directorate of Civil Supplies and Public Works Department	For making necessary provisions for food & water to the victims.
7.	Civil Aviation	Should be on high alert for participating in the MRO. Civil Aviation should keep their aircraft stand by to render immediate assistance soon after receipt of information.
8.	Indian Air Force	Should be kept on high alert for participating in the MRO. Air Force should deploy their equipped rescue aircraft immediately soon after receipt of information.
9.	Indian Meteorological Department-IMD	On receipt of information on MRO, IMD to furnish regular weather updates to On Scene Commander-OSC.

ii. Additional Resources & capabilities:

Sl. No.	Additional Agencies	Capabilities
1.	Goa State Pollution Control Board	To keep a vigil on the situation and provide necessary assistance in controlling the pollution if any.
2.	NCC, NSS, NYKS/AapdaMitra Volunteers	To provide necessary assistance, volunteers in case of major rescue operations
3.	Red Cross Society	To work in collaboration with Health Department
4.	NGOs /CSOs	To provide necessary assistance, volunteers, manpower in case of major rescue operations

1.	Incident Command System	a) Effective means of Coordinating with multi –agency. b) MRCC ³ backup and relocations plans.
2.	OSC(On scene Coordinator)	Identification and analysis of situation that could potentially lead to the need for MROs.
3.	North & South Collector's	Mobilization and Coordination of Search and Rescue facilities. 1. Department of Captain of Ports. 2. Mormugao Port Authority. 3. Dy. Collectors of concerned district. 4. Goa Police. 5. Marine Coastal Police. 6. Department of Fire & Emergency Services. 7. Department of Health Services. 8. Department of Fisheries. 9. Mercantile Marine Department. 10. Department of Civil Aviation. 11. Indian Air Force. 12. Airport Authority of India. 13. Goa Coast Guard. 14. Naval Authority. 15. Tourism Department. 16. Transport Department. 17. Red Cross Society. 18. NGOs
4.	Control Room Number	1. North Goa- 0832-2223612/2224353/2225083 2. South Goa- 0832-2794100/2794111
5.	Identification of potential landing sites	1. North Goa- Caranzalem beach, Captain of Ports jetty. 2. South Goa- Mormugao Port Authority, Harbour.
6.	Health Department	Survivors needs including medical needs.
7.	Police Department	Recovery and handling of dead Bodies.
8.	Deputy Collector	a) Smooth handover from SAR ⁴ facilities to shore. b) Care, assistance and further transfer of survivors. c) Transfer of dead bodies. d) Notifying, managing and assisting the families. e) Working with News and Social Media

³ MRCC-Maritime Rescue Coordination Centre

⁴ SAR-Search and Rescue

a) Risk Assessment:

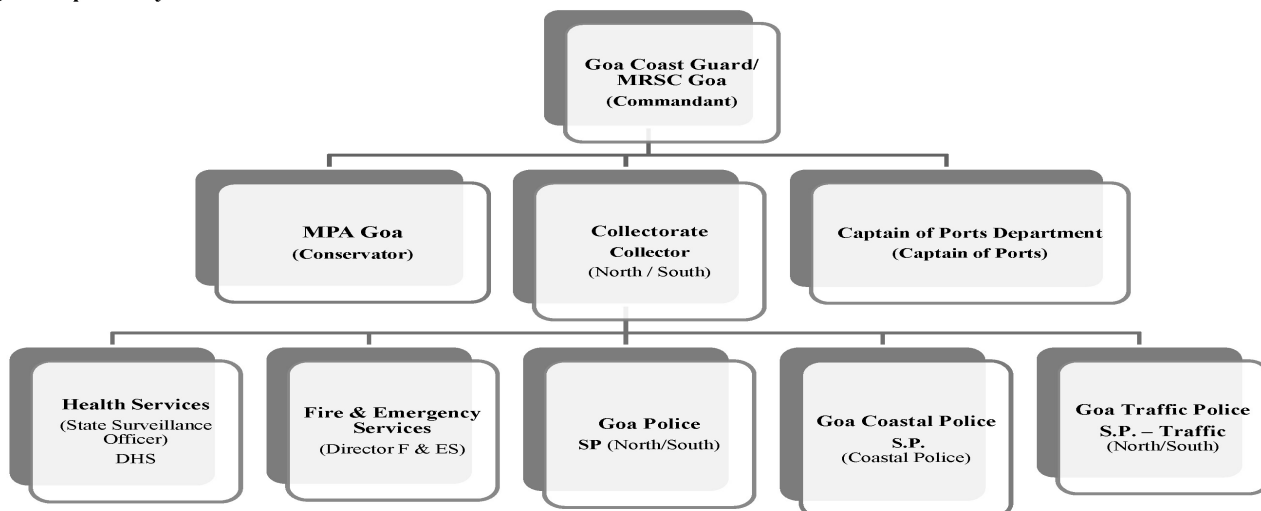
The following situations can result in unexpected losses in terms of casualties, death, and damage to property and environment.

Risk	Vulnerable Area	Mitigation
Bad Weather	Rescue Agencies will face difficulty in Search and Rescue Operations	1. MRSC ⁵ to decide on the SAR operations 2. Sea worthy assets to be deployed to carry out SAR
	Shore Agencies will Face challenges due to inclement weather.	1. Deployed Trained Team / Personnel to assist in Evacuation of survivors/ Casualties. 2. Operation may have to be halted till weather improves.
Communication	Communication failure due to faulty equipment	1. All the communication equipment need to be tested prior engagement in SAR operation
	Miscommunication	1. Communication should be Loud and Clear 2. Proper line of communication from OSC as per communication PLAN. 3. Continuous confirmation of communication for better understanding of instructions.
	Failure of communication due to inclement weather.	1. VHF, MF and HF Radios should be used. 2. If not, Satellite phones available with both collectors can be used.
HNS unit in the nearby Landing area	Rescue Effort Challenges	1. Identification of HNS units in the proximity of Landing Sites. 2. All the concerned HNS unit to be informed of MRO 3. HNS ⁶ units to be on high alert for extra precaution during MRO
	Explosion of HNS Units	1. All the alternate routes to be identified. 2. In case of Explosion: Alternate Routes should be used for shifting of casualties and survivors to hospitals and safety shelters respectively.
Obstructed Landing Areas.	Landing and Evacuation will be a challenge	1. Inspection of the landing sites to be carried out for smooth operations. 2. All the landing sites to be cleared from all obstruction to facilitate the landing of survivors and casualties. 3. Alternate landing sites to be identified in case the primary or main landing site is not clear of Obstruction. 4. All the Tourist boats and fishing boats to be informed to remain away from the safe navigation channel for smooth SAR operation.
Traffic Congestion on Road	Evacuation process will be hampered	1. The Traffic police should identify the route. 2. The route should be kept clear from the other traffic for smooth shifting of Casualties and survivors.

⁵ MRSC-Maritime Rescue Sub-Centre

⁶ HNS- Hazardous and Noxious Substances

a) Compatibility:



a) Compatibility:

S.No.	Agency	Designation	Name	Contact (Mob/office)
1.	Goa Coast Guard/ MRSC Goa	Commandant	Shri. Sankar Raju	09112861355
2.	North/South Goa Collectorate	Collector North	Ms. MamuHage, IAS	9953462311
		Collector South	Shri. Asvin Chandru, IAS	9361128549
3.	MPA Goa	Conservator	Capt. Manoj Joshi	09822101844
4.	Captain of Ports Department	Captain of Ports	Capt. PremlalSirsaiakar	09923390953
5.	Health Services	State Surveillance Officer)	Dr. Prashant Suryawanshi	9011025052
6.	Directorate of Fire & Emergency Services	Director, DFES	Shri. Nitin V. Raiker	082-2225500/ 2423101/2425101 +919881308988/ 9763717052
7.	Goa Police	SP North-Goa	Shri. Abhishek Dhanai, IPS	787556008
		SP South-Goa	Shri.Nidhin Valsan IPS	787556017
8.	Panaji Coastal Security Police Station	Superintendent of Police- SP	Shri. Kiran Poduval	787556013
9.	Harbor Coastal Security Police Station	Superintendent of Police- SP	Shri. Kiran Poduval	787556013
10.	Goa Traffic Police	SP – Traffic North/South	Shri. Bossuet Silva	787556018

3. Resource Agencies:**a) Lead Agency:**

- i. Indian Coast Guard, Goa District
- ii. North/South Goa Collectorate
- iii. Captain of Ports / MPA Goa
- iv. Goa / Coastal/Traffic Police
- v. Fire & Emergency Services
- vi. Health Services
- vii. PWD
- viii. Transport Dept.

b) Participating Agencies:

- i. Naval Authority
- ii. DG Shipping/ MMD⁷ Goa
- iii. Goa Shipyard
- iv. Deputy Collectors, Mamlatdars, Joint Mamlatdars, Chief Officers of Municipalities (Local Administration)
- v. Transport Department
- vi. PWD
- vii. AAI
- viii. Civil Aviation
- ix. Indian Air Force

c) Additional Resources:

- i. Goa State Pollution Board
- ii. NCC/NSS/NYKS/AapdaMitra
- iii. Red Cross Society
- iv. NGOs/ CSOs

d) Capability:

Sl. No.	Agencies	Capabilities	Limitations
1.	Goa Coast Guard	1. Being the Nodal Agency for Search and rescue operation at sea, Indian SRR ⁸ should actively participate with the crisis management team for effective control over mass rescue operation and deploy their required assets.	If the magnitude of the emergency exceeds the coping capacity of the Indian Coast Guard, additional assistance may be requisitioned from the neighboring coastal states.
2.	North/South Goa Collectorate	1. Team of Dy. Collectors/Mamlatdars as per the instructions of Collectors. 2. Crisis Management Strategy in case of Mass Rescue Operation at sea i.e. arrange for rescue, relief. 3. Activation of Mass Rescue Operation Contingency Plan at Sea.	Experienced personnel to be deployed who has on hand experience in dealing with Emergencies such as mass evacuation. Additional assistance in the form of Human Resource, equipment and Machinery shall be requisitioned from neighboring districts/states as

⁷ MMD-Mercantile Department⁸ SRR-Search & Rescue Region

		<p>4. 11 Multipurpose Cyclone Shelters-MPCS</p> <p>5. Besides 259 schools and 132 community halls have been identified as emergency centers been designated as Cyclone / Flood Shelters.</p> <p>6. The resources available with the Private Companies/PSUs should also be documented at the Collectorate level to fight against the disasters.</p>	<p>per the demand of emergencies.</p> <p>The team should be trained as per Mass Rescue Contingency plan.</p> <p>MPCS in coastal subdivisions with all required facilities may be utilized to accommodate the rescued people and if required, the nearby MPCS can be used for the same.</p>
3.	Mormugao Port Authority, Goa	<p>1. Rescue Tugs and vessels in ports equipped with accessories needed to combat Mass Rescue Operation at sea.</p> <p>2. Available two tugs.</p>	<p>All the Assets and resources should be in seaworthy condition.</p>
	Captain of Ports Dept. / MPA Goa	<p>1. Rescue boats equipped with accessories needed to combat Mass Rescue Operation at sea.</p> <p>2. One firefighting and towing tug along with passenger vessel of 300 pax will be deployed during Mass Rescue Operation.</p>	<p>This department will be able to deploy if weather is fair. During rough weather the vessel will not be able to join the SAR operation.</p> <p>All the Assets and resources should be in seaworthy condition.</p>
4.	Goa Police Department	<p>Team of Police personnel along with a vehicle in affected coastal Subdivisions/Talukas of the concerned district.</p>	<p>All the Police personnel (i.e. Police Inspector-PIs, Dy. Superintendent of Police-Dy.SPs and Superintendent of Police-SPs) should be aware of Mass Rescue Operation plan and according maintain the law and order situation.</p>
5.	Marine Coastal Police	<p>Marine Coastal police along with available boats to deploy to carry out rescue operation and to assist other agencies involved in operation.</p>	<p>All the Coastal patrol boats should be in seaworthy condition.</p> <p>Experienced crew to be deployed during SAR Operation.</p>
6.	Directorate of Fire & Emergency Services	<p>1. The operational strength of the Goa Fire & Emergency Services is 683.</p> <p>2. It provides round the clock services with the setup of 16 Fire Stations located in the township of the respective local Bodies / Municipalities viz; Panaji, Vasco, Mapusa, Pernem, Pilerne, Ponda, Kundaim, Old-Goa, Bicholim, Valpoi, Margao, Verna, Curchorem, and Canacona.</p> <p>3. The operation control of South Zone, Central Zone, and North Zone are under control of</p>	<p>The Fire Station closest to the Incident will respond to the incident and all the corresponding Fire Stations from the jurisdiction will be on standby.</p>

		<p>Divisional Officer and Asst. Divisional Office respectively.</p> <p>4. Team of Fire & Emergency Services personnel with a fire tender along with a senior official (DO/ADO) shall be in place of the affected coastal Subdivision/Taluka to cater to MRO as per the demand of the situation.</p>																																													
7.	Health Department	<p>1. A Medical Team (Doctors/ Nurses/Para Medics, etc.) along with all possible facilities shall be placed in the designated coastal Subdivisions/Talukas to attend to mass casualties and any medical assistance as per demand of the situation.</p> <p>2. Current capacity of the Department includes:</p> <table><tr><td colspan="2">Hospitals/Health Care Centers</td></tr><tr><td>District Hospitals</td><td>02</td></tr><tr><td>Sub District Hospitals</td><td>02</td></tr><tr><td>Community Health Centre</td><td>06</td></tr><tr><td>Primary Health Centres (Bedded)</td><td>13</td></tr><tr><td>Primary Health Centres (Non-Bedded)</td><td>13</td></tr><tr><td>Urban Health Centre</td><td>04</td></tr><tr><td>Total</td><td>40</td></tr><tr><td colspan="2">AMBULANCE SERVICE</td></tr><tr><td colspan="2">Number of ambulances under DHS :</td></tr><tr><td>North Goa</td><td>33</td></tr><tr><td>South Goa</td><td>39</td></tr><tr><td>Total</td><td>72</td></tr><tr><td colspan="2">EMR 108 WORKING AMBULANCES :</td></tr><tr><td>108 ALS AMBULANCES</td><td>43</td></tr><tr><td>DROP BACK</td><td>04</td></tr><tr><td>NEO NATAL AMBULANCES</td><td>02</td></tr><tr><td>VVIP AMBULANCES</td><td>01</td></tr><tr><td>FIRST RESPONDER BIKES</td><td>35</td></tr><tr><td>CARDIAC CARE AMBULANCES</td><td>05</td></tr><tr><td>HEARSE VANS</td><td>06</td></tr><tr><td>Total</td><td>96</td></tr></table>	Hospitals/Health Care Centers		District Hospitals	02	Sub District Hospitals	02	Community Health Centre	06	Primary Health Centres (Bedded)	13	Primary Health Centres (Non-Bedded)	13	Urban Health Centre	04	Total	40	AMBULANCE SERVICE		Number of ambulances under DHS :		North Goa	33	South Goa	39	Total	72	EMR 108 WORKING AMBULANCES :		108 ALS AMBULANCES	43	DROP BACK	04	NEO NATAL AMBULANCES	02	VVIP AMBULANCES	01	FIRST RESPONDER BIKES	35	CARDIAC CARE AMBULANCES	05	HEARSE VANS	06	Total	96	<ul style="list-style-type: none">• All the ambulances should be in good working condition.• Experienced team to handle the casualties and Survivors.
Hospitals/Health Care Centers																																															
District Hospitals	02																																														
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Details on Resources and Communication can be referred from Annexure V.																																															

4. Organization

The following Command and Control Structure (CCS) shall be a general Command and Control Centre (CCC) for all the emergencies at sea and there shall be restructuring in it only to rope in the agencies as per the demand of the situation like Capsizing, Fire, Hijacking or HNS hazards etc.

a) Command and Control Structure:

Command and Control Centre (North Goa)		
Goa Coast Guard/ MRSC Goa	Commandant	09112861355
North Collectorate	Collector North	9953462311
Captain of Ports Dept.	Captain of Ports	9923390953
Transport Dept.	Director Transport	9823256280
Health Dept.	Dir. Health Services (DHS)	9011025041
Police Dept.	SP North	787556008
DFES	Dir. F&ES	9763717053
AAI	Head Airport R & FF MOPA	9650597878
IMD	Director of I.M.D, Goa.	9821794140
PWD	Ppl. C.E. PWD	9325379313

**Command and Control Centre
(South Goa)**

Goa Coast Guard/ MRSC Goa	Commandant	09112861355
South Collectorate	Collector South	9361128549
Captain of Ports Dept.	Dy. Captain of Ports	9923390953
Transport Dept.	Addl. Dir. Transport	9822553455
Health Dept.	Med. Supdt. of Hospicio Hospital	9011025094
Police Dept.	SP South	787556017
DFES	Director DFES	9763717053
AAI	Dir. Airport, Dabolim	7875756178
IMD	Director of I.M.D, Goa.	9821794140
PWD	Chief Engineer PWD	9168694752

Identification and analysis of the situation could lead to the need for MRO. The OSC will activate the MRO contingency Plan and mobilize/ co-ordinate necessary SAR facilities. In case of the bad/hostile weather and environment, Maritime facilities will be restricted in SAR operations and hence the Civil Aviation Agencies, AAI and IMD will play an important role in MRO. The use of Choppers and planes will be required to be put in service for SAR operations till the weather improves and facilitate Maritime Agencies in MRO.

b) MRO-Crisis Management Group (MRO-CMG):

During the MRO crisis the following are the senior level officers from State and Central Government agencies functioning under State Disaster Management Authority and envisaged to be related with MRO:-

- i. Chief Minister
- ii. Revenue Minister
- iii. Chief Secretary
- iv. Secretary (Health)
- v. Secretary (Revenue)
- vi. Secretary (Ports)
- vii. Secretary (Fisheries)
- viii. Special Secretary (Home)
- ix. Director General of Police
- x. Commandant, Indian Navy
- xi. Commandant, Coast Guard
- xii. Collector (North/South)
- xiii. Captain of Ports
- xiv. Director of Fisheries
- xv. Indian Air Force
- xvi. Conservator, MPA
- xvii. Chairman, Goa Shipyard
- xviii. Director General (Shipping), Mercantile Department
- xix. Superintendent of Police (North/South)
- xx. Superintendent of Police (Coastal Marine)
- xxi. Director, IMD
- xxii. Director, Civil Aviation

c) Functions of MRO-CMG:

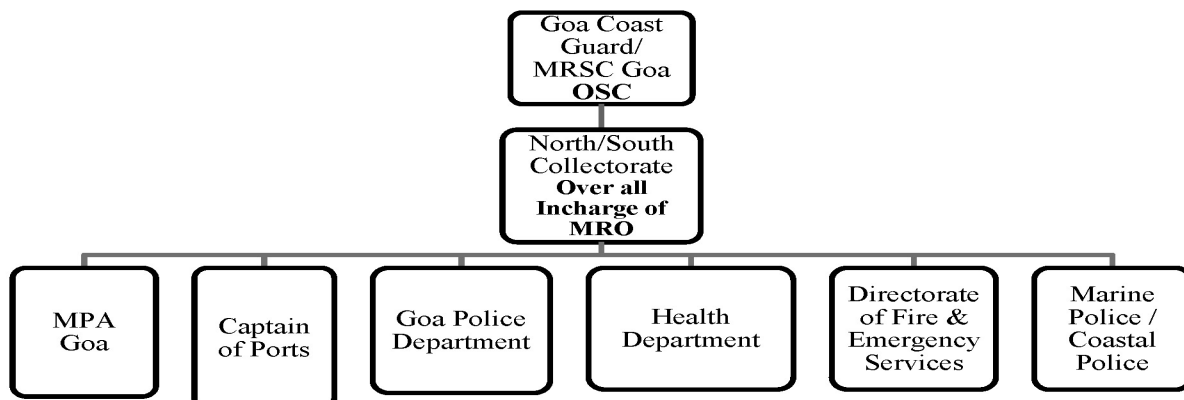
The function of MRO is to prepare for large scale rescue capabilities at sea through comprehensive contingency plan and training. The responsibilities of multiple agencies may be referred to 2(d) and also appendix I, II and III.

d) Nominations:

The nomination of MRCC, MRO/ SAR Coordinator, SAR Mission Coordinator (SMC), On-Scene Commander(s), Aircraft Coordinator will be finalized by the lead Agency i.e. Goa Coast Guard.

5. Response Strategy

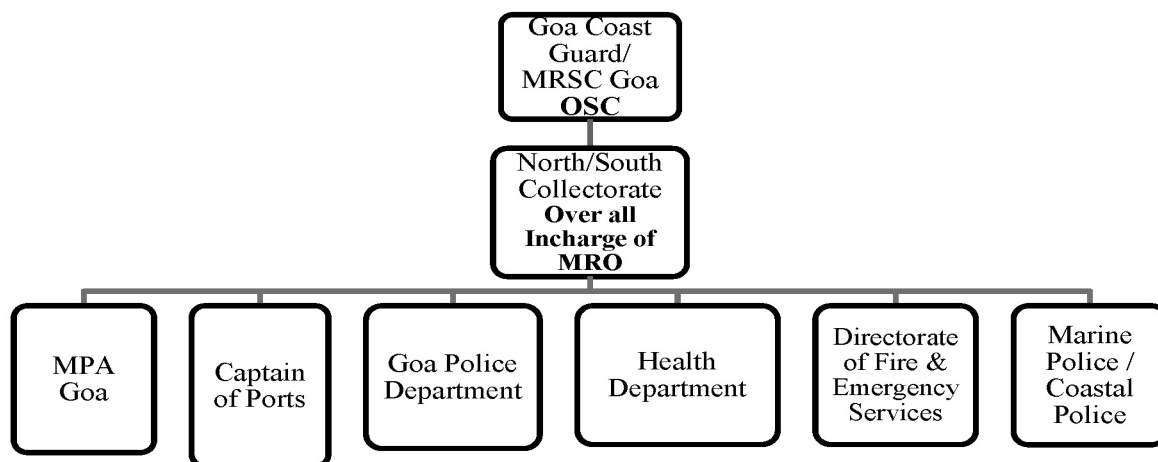
a) Response Strategy: Initial Responders



Sl. No.	Agency	Response Strategy
1.	Goa Coast Guard	<ol style="list-style-type: none"> 1. Goa Coast Guard (On Scene Commander-OSC) shall lead the MRO at Sea 2. The OSC will intimate the respective Collector of the district for preparation of response mechanism in the affected coastal subdivision/Talukas. 3. The On Scene Commander will ensure the prompt response for MRO utilizing the Human resource, Machinery and equipment available.
2.	Captain of Ports / MPA Goa	<ol style="list-style-type: none"> 1. The two major landing sites will ensure that required number of vessels and tugs along with the required human resource is placed in advance at these sites for the MRO.
3.	North/South Goa Collectorate	<ol style="list-style-type: none"> 1. The Collectors of the respective districts after receiving the information from the Coast Guard will activate the Response Teams including Dy. Collectors, Mamlatdars of the affected coastal Sub-Divisions/Talukas. 2. All the lead and additional agencies will be roped for an effective and timely response.
4.	Goa Police Department	<ol style="list-style-type: none"> 1. On the directions of the Collector/Dy. Collector, the Concerned Police Station will cater to the law and order situation of the affected coastal Sub-division/Taluka in the land area. 2. The mass casualties shall be received by the concerned Police team along with other relevant stake holders for identification and further action as deemed fit. 3. Additional Police Team/s will be called for if required from the neighboring Subdivisions/Talukas or District.
5.	Marine Police / Coastal Police	<ol style="list-style-type: none"> 1. Marine Police Teams along with Coastal Police will be roped in for the robust response on the instructions of the On Scene Commander (Coast Guard) at sea. 2. Being the first responders at sea, they will ensure the law and order situation at sea as well. 3. In case, more boats or manpower is required for MRO, a requisition through the OSC will go to the teams in the nearest subdivisions/talukas or to the neighboring districts or states via District Collectors

		<p>after being intimated by the OSC at sea.</p> <p>4. Marine Police along with boats should be on alert to deploy their boats with additional manpower to carry out rescue operation and to assist other agencies involved in the operation.</p> <p>5. The team will report to OSC on the status of the situation at sea.</p>
6.	Directorate of Fire & Emergency Services	<p>1. On the instructions of the Collector/Dy. Collector, Director DFES shall depute their trained personnel along with fire tenders for firefighting support if needed and for taking control of the situation as supporting hand and provide required man power assistance for Onshore Fire Fighting and Salvage operations.</p> <p>2. If the impact of the incident exceeds the coping capacity of the deployed DFES Team, additional assistance in human resource and fire tenders shall be requisitioned from the neighboring sub division/Taluka. The team will report to concerned Collector of the affected district on the status of the situation offshore and/or onshore.</p>
7.	Health Department	<p>1. The HoD of the Health department of the concerned on the directions of the concerned Collector shall deploy the Medical Teams (Doctors, Nurses and Paramedics) along with required ambulances and medicine.</p> <p>2. The team shall perform the medical triage for segregation of the dead, seriously ill/injured, walking to priorities the immediate treatment required by the victims.</p> <p>3. In addition to medical triage, the deployed medical teams shall do the First Aid and CPR on land area of injured people/victims rescue from the sea.</p> <p>4. The seriously injured shall be referred immediately to the nearest medical facility availability through the shortest possible route to save lives in the golden hour.</p>

Response Capability:



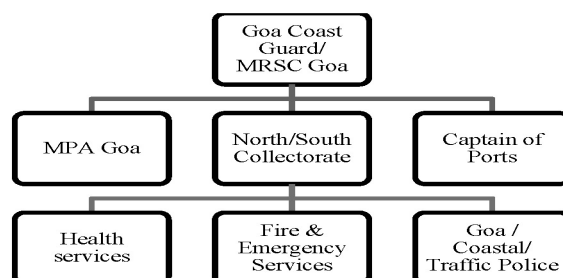
Sl. No.	Agency	Response Capability
1.	Goa Coast Guard	1. Being the Nodal Agency for Search and rescue operation at sea in Indian SRR should actively participate with the crisis management team for effective control over mass rescue operation.
2.	Captain of Ports / MPA Goa	1. Firefighting and Rescue tug: 01 2. Vessel with 300 passenger capacity: 01 3. Landing site: Captain of Port Jetty, Panaji
	MPA Goa	1. Seagoing Tugs: 02 2. Available Vessels in MPA port limit. 3. Landing site : MPA Harbor
3.	North/South Goa Collectorate	1. 5 Nos of Deputy Collectors. 2. 10 Nos Mamlatdars
4.	Goa Police Department	The Police Authority on receipt of information should send their personnel for joining the crisis management group and help in cordoning off the area and taking control of the law and order situation by removing people from the area as well as marking the designated area.
5.	Marine Police / Coastal Police	Marine Police along with boats should be alert to deploy their boats with additional manpower to carry out rescue operation and to assist other agencies involved in the operation.
6.	Directorate of Fire & Emergency Services	Fire Station : 16 Operational Staff Strength: 683
7.	Health Department	a) Please refer to 3 (d7) at Page 19 b) 24x7 Emergency Control Room for both districts Contact : 0832-2421810 / 2225538

c) Responsibilities

Sl. No.	Agencies	Responsibilities
1.	Coast Guard	<ul style="list-style-type: none"> MRSC shall nominate Coast Guard as the On Scene Commander (OSC) who will be Coordinating Authority for Mass Rescue Operation at Sea with response assistance from other national level stakeholders. To act as On Scene Commander (OSC) when the Mass rescue situation reported at sea in the concerned Coastal District. Coordinate with the Central/State/NGOs agencies and plan response strategy. Supervise the rescue operations which are undertaken by the various central/state agencies. To take all suitable measures to thwart any unforeseen mass disaster at sea. Conduct the planning and strategy meeting in coordination with State Government. Establish Emergency Response Centre (ERC) in coordination with State Government.
2.	Indian Navy	<ul style="list-style-type: none"> “Deploy assets” for search and surveillance when beyond Coast Guard’s inherent capability and on request from Coast Guard subject to overall security situation. “Deploy assets” for transshipment of rescued survivors when beyond Coast Guard’s inherent capability and on request from Coast Guard. To make available its aircraft/ helicopters for aerial monitoring of affected area and mobilization of response recourses.
3.	Directorate General of Shipping	<p>The Directorate General of Shipping will be responsible for establishing control over the traffic for merchants’ ships operating in the area. The additional roles are:</p> <ul style="list-style-type: none"> Taking necessary preventive action through the Marine Emergency Response System's Emergency Towing Vessels (ETVs). Directing additional ships to assist during the operations.
4.	MRO Crisis Management	<ul style="list-style-type: none"> To help all the Departments in control of damage to environment and human settlements due to mass loss of lives and property. Provision of initial assistance at or near the scene of a distress situation. (e.g., initial medical assistance or advice, medical evacuations, provision of food or clothing to survivors, etc.) Delivery of survivors to place of safety or where further assistance can be provided. Saving of property when it can be done in conjunction with saving lives. Support lifesaving provision of the International Convention of Maritime Search and Rescue of IMO- International Maritime Organization, the Convention of International Civil Aviation Organization and certain International/Regional Agreements to which India is a party. Provide overall plan for coordination of SAR

		<p>operation, effective use of all available resources, mutual assistance and efforts to improve such cooperation and services on Goa Coast in India SRR.</p> <ul style="list-style-type: none"> Utilize available resources that can be used for SAR into a cooperative network for greater protection of life and property and to ensure greater efficiency and economy.
5.	Goa State Pollution Control Board	<ul style="list-style-type: none"> Render all possible assistance to the District Collectors and other lead agencies for rescue operations and shoreline clean-up if required. Take legal action in accordance to the powers provided in the relevant legislations. Advise the agencies for disposal of collected debris and waste. Assess the environmental damage and provide necessary remedial measures. Facilitate restoration measures of the affected shoreline/coastal areas.
6.	Goa Police Department/ Coastal Police	<ul style="list-style-type: none"> Provide resources such as boats, vehicles for conveying personnel and assisting the other concerned agencies in operation. Secure the area from the access of the general public and maintenance of law and order. Assist the District Administration for demarcating the rescue zone and preparation of venue.
7.	Fisheries Department	<ul style="list-style-type: none"> Assist /advise local action group in identifying the rich fishing grounds so as to give priority for protection of such grounds from effect of oil spills if occurred due to sinking/grounding of vessel. Assist the local action groups to identify the fishing vessels suitable for deployment to recover/receive recovered survivors from the effected vessel if needed. To arrange for suitable fishing vessels which can be utilized as mobile hospital. Impose ban on fishing in the affected area. Assist in preparation of claims for fishermen for non-fishing days and for restoration of fishing areas from the polluter.
8.	Mormugao Port Authority-MPA	<ul style="list-style-type: none"> Mormugao Port Authority will be in charge of the overall co-ordination of actions in the area within port limits as regards to mass rescue operation in close coordination with CISF⁹ personnel. To provide manpower for rescue operation to the District administration whenever required by them. To provide boats/vessels for evacuation of survivors from affected area to shelter place.

a) Preparedness:



Sl. No.	Agency	Preparedness Strategy
1.	Goa Coast Guard	1. Being the Nodal Agency for Search and rescue operation at sea in Indian SRR should actively participate with the crisis management team for effective control over mass rescue operation.
2.	Captain of Ports / MPA Goa	1. Should be bound to possess rescue boats equipped with accessories needed to combat Mass Rescue Operation at sea. 2. The location for keeping the equipped rescue boats may be from where immediate deployment of boats may be undertaken. 3. The equipment as well as personnel should be a part of the crisis management team and kept in readiness state to handle rescue operation under the guidance of the Nodal Officer selected for the purpose by the State Administration. 4. The team should also be prepared to help in fighting the menace till the operation is over.
3.	North/South Goa Collectorate	1. Crisis Management in case of Mass Rescue Operation at sea i.e. arrange for rescue, relief. 2. Arrange for Risk Management by coordinating among all concerned departments of the State Government. 3. Preparation of Mass Rescue Operation Contingency Plan at Sea. 4. Promoting the culture of preparedness, mitigation & prevention for Mass Rescue Operation at Sea.
4.	Goa Police Department	The Police Authority on receipt of information should send their personnel for joining the crisis management group and help in cordoning off the area and taking control of the law and order situation by removing people from the area as well as marking the designated area.
5.	Marine Police / Coastal Police	Marine Police along with boats should be on alert to deploy their boats with additional manpower to carry out rescue operation and to assist other agencies involved in the operation.
6.	Directorate of Fire & Emergency Services	On receipt of information for any fatal incident at sea, should immediately contact the concerned. On Scene Commander (OSC) and assess the requirement of support if needed and remain on standby.
7.	Health Department	Should also actively participate in treating the persons affected by the incident.

b) Weather Consideration:

During bad or inclement weather, the efforts of rescue operation will face challenges. The rescue vessels will find it difficult to recover survivors during bad weather.

6. Alerting & Situation Update:**a) Alerting:**

- The relevant authorities, in conjunction with Government Departments, shall set up early warning mechanisms to give advance warning for hazards like cyclones, floods etc.
- This shall include the setting up of Regional Response Centres, if necessary, for providing key early warning information and preparing for a response. In the event of occurrence of disaster, Department of Disaster Management shall ensure that these mechanisms are aligned with the overall Disaster Management Plan for the State.

b) Situation Report-SITREP:

- The Government of Goa will ensure that a comprehensive information network is available.
- This network must enable timely collection of hazard-related information and rapid dissemination of relevant information.

7. Response Mechanism**a) Mobilisation:**

- Potential disastrous consequences of poor preparations for MROs in terms of loss of life and other adverse results are enormous.
- Major incidents may involve hundreds or thousands of persons in distress in remote and hostile environments.
- A large passenger ship collision, a downed aircraft, or a terrorist incident could, for example, call for the immediate rescue of large numbers of passengers and crew in poor environmental conditions, with many of the survivors having little ability to help themselves, and the dire results of failure are evident.
- Preparedness to mount an extraordinarily large and rapid response is critical to preventing large-scale loss of lives.
- Such preparedness often depends on strong and visionary leadership and unusual levels of co-operation to achieve.
- There will often be strong resistance to paying the inherently high price in terms of time, effort and funding that preparedness for major incidents entails, particularly as they are rare events.
- The required levels of co-operation, co-ordination, planning, resources and exercises, required for preparedness are challenging and do not happen without the requisite commitment of SAR authorities, regulatory authorities, transportation companies, sources of military and commercial assistance and others.
- SAR authorities should co-ordinate MRO plans with companies that operate ships and aircraft designed to carry large numbers of persons.
- Such companies should share in preparations to minimize the chances that MROs will be needed, and to ensure success if they are.
- MRO planning, preparations and exercises are essential since opportunities to handle actual incidents involving mass rescues are rare.
- Therefore, the exercising of MRO plans is particularly important.
- The provisions of this document are intended to provide general guidance to authorities and organizations responsible for ensuring that MROs, should they be necessary, are successful.

b) Rescue/Retrieval:

- For a situation involving large numbers or persons in distress, on scene responsibilities for the safety of passengers and crew will be shared by the OSC and the aircraft pilot in command or ship master, with the pilot or master assuming as much of this responsibility as possible before or after the aircraft or ship is abandoned.
- Pilots and masters are responsible for manoeuvring the aircraft or ship as feasible and appropriate.

- They also have overall responsibility for safety, medical care, communications, fire and damage control, maintaining order and providing general direction.
- Unless a ship appears to be in imminent danger of sinking, it is usually advisable for passengers and crew to remain on board as long as it is safe to do so.
- In the case of a downed aircraft, whether passengers would be safer on board should be assessed for each situation.
- Usually they should promptly evacuate the aircraft at sea. On land this decision must account for the conditions of the aircraft and the environment, expected time to rescue or aircraft repair, and whether required passenger care can be best provided inside the aircraft.

c) Initial Assistance:

- The OSC will normally be designated by an SMC¹⁰. An OSC may be able to handle certain communications on scene and with appropriate remote authorities to help free the pilot or master to retain the integrity of his or her craft.
- However, these persons are themselves in need of assistance, and anything the OSC can do to help them should be considered, bearing in mind that the OSC's main duty is co-ordinating SAR facilities and rescue efforts under the SMC's general direction.
- It is important to minimize unnecessary communications with the master of a ship or pilot in command of an aircraft in distress, and this should be taken into account in advance planning.
- Exchanges of information during joint planning by use of SAR Plans of Co-operation and other means will reduce the need to ask the pilot or master for this information one or more times during the crisis.
- Persons or organizations that want this information should be directed to a source ashore or on the ground that is prepared to handle the demand of the situation.
- High priority should be given to tracking and accounting for all persons on board and all lifeboats and rafts, and efforts to keep them together will help in this regard.
- Availability of accurate manifests and accounting is critical. The need to relocate survival craft and check for persons in them can waste valuable resources.
- One option is to sink survival craft once the persons in them have been rescued; however, the potential that other survivors may find and need the craft should be considered.
- Indian Navy / Coast Guard ships are often better equipped than commercial vessels for retrieving people who have abandoned a ship or aircraft, and use of any such ships should be considered.

d) Execution Plans:

- Use the Incident Command System (ICS) or other effective means of handling multiagency, multi-jurisdiction, multi-mission scenarios;
- Identify situations within the SRR that could potentially lead to the need for MROs, including scenarios that might involve cascading casualties or outages;
- Mobilization and co-ordination of necessary SAR facilities, including those not normally available for SAR services; ability to activate plans immediately;
- Call up procedures for needed personnel;
- Need for supplemental communications capabilities, possibly including the need for interpreters;
- Dispatching of liaison officers;
- Activation of additional staff to augment, replace or sustain needed staffing levels;
- Recovery and transport of large numbers of survivors (and bodies, if necessary), accounting for survivors potentially having injuries and lack of training, age limitation, hypothermia, etc.;
- A means of reliably accounting for everyone involved, including responders, survivors, crew, etc.;
- Care, assistance and further transfer of survivors once delivered to a place of safety, and further transfer of bodies beyond their initial delivery point.

¹⁰ SMC-SAR Mission Coordinator

e) Medical Triage: Coverage of Medical Triage Camp

- The triage camps will be setup by the concerned Medical Officer, Incharge as per the directions of the Incident Commander.
- The Incident Commander activates all stakeholders through the Nodal Officers for setting up of triage camps, mobilization of ambulances, medical staff, shifting of rescued personnel to trauma centres/hospitals and other supporting activities.
- Home Guards are requisitioned at the site, police constables headed by PSI, Firemen are requisitioned by Directorate of Fire & Emergency Services.
- Health & Family Welfare Department — Headed by Chief Medical Officer of Health Plan for detailing Medical team at vulnerable areas.
- Determination of injuries and illness expected during a particular calamity, assessment of required drugs and plan for making stock of such drugs.
- Emergency medical equipment which may be required after a disaster, Plan for training of hospital staff on disasters, likely damages and effects, and for protecting life, equipment and property.
- Plan for protecting medical equipment, immovable equipment in remote health centers situated within hazard-prone areas.
- Plan for evacuation of Hospital equipment at the order of the District Magistrate.
- Plan for arrangement of emergency generators in all Block Primary Health Centers, Rural Health Centers, Sub-divisional Hospitals and District Hospitals during disaster events.
- Arrangement for receiving large number of casualties.
- Arrangement for adequate staff in Sub-divisional and District Hospitals to handle emergency casualties.
- Plan for keeping Blood Bank open and ready round the clock.
- Plan for keeping ambulances and other vehicles in function.
- Plan for making services of all doctors, nurses and other staff available to the District Magistrate at the time of emergency disaster event.
- Request Indian Coast Guard for provisioning of Hospital ship for evacuating mass casualties from sea.

f) Transfer:**Procedure and resources for transfer of the survivors to Place of Safety ashore.**

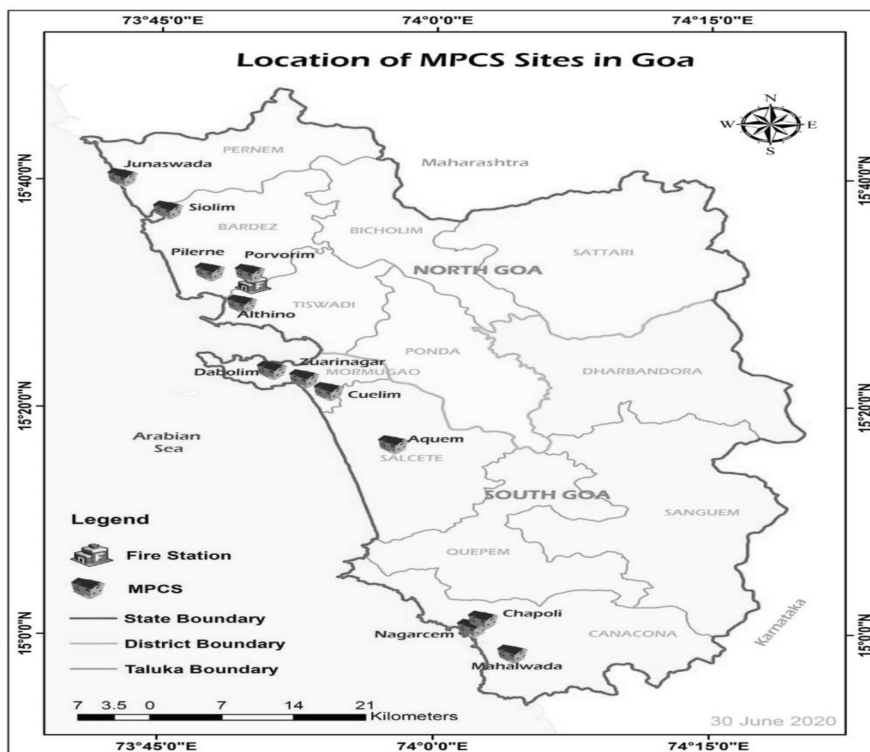
- i. The OSC shall intimate to the Collector North/South Goa regarding the number of survivors/causalities to be transferred offshore.
- ii. The Police Authority in addition to taking control of the law and order situation will receive the survivors/causalities along with Department of Health services at the pre-identified area and handover the same to the concerned for further deliberations.

g) Accounting:

- Government of Goa allocates funds in the State Budget for relief activities. However, these funds may not be adequate to meet disaster management requirements in the aftermath of large scale disasters.
- In such circumstances, the Government of Goa shall explore additional sources of funding through aid, grants, loans etc., as identified in the pre-disaster phase.
- Relief packages shall be customized, if required, to the specifics of the disaster by the Government of Goa.
- Relief packages would include details relating to collection, allocation and disbursement of funds to the affected people.
- Relief would be provided to all affected families without any discrimination of caste, creed, religion, community or gender whatsoever.
- Department of Disaster Management with assistance from other Government Departments, District Administration and local authorities will document learning from the relief experience, which can be inputs into further mitigation, relief or rehabilitation and reconstruction plans.

h) Shifting

Transfer of rescued/ retrieved person/s from Place of Safety to designated places including 259 schools and 132 community halls with all basic facilities as identified by both Collectors in DDMP and 11 Multi-Purpose Cyclone Shelters-MPCS.



Multi-Purpose Cyclone Shelters-MPCS		
Location	District	Number of Shelters
Saligao-Bardez	North Goa	01
Penha De franca, Bardez	North Goa	01
Junuswada,Mandrem	North Goa	01
Althino, Panaji	North Goa	01
Dabolim, VP Chicalim	South Goa	01
Poinguinim , Canacona	South Goa	01
Nagarcem, Canacona	South Goa	01
Mahalwada, Poinguinim	South Goa	01
Aquem, Salcete	South Goa	01
Sancoale, Mormugao	South Goa	01
Cuelim, Mormugao	South Goa	01
Total		11

8. Communication:**(a)Communication structure and plans for multi-agency integrated operation.**

- A good Communication is of paramount importance to any incident without which any well-developed plan will be drastically curtailed in efficiency.
- The Lead agencies would communicate to the participating agencies and additional agencies regarding the impact of MRO and specific activities that are being or need to be undertaken to minimize the impact.

(b) DG Shipping/ Indian Coast Guard/ Indian Navy/ Indian Air Force SITREP reporting network.

The control rooms established at the District Head Quarters as well as at the Taluka Mamlatdars offices of both North and South Goa Districts will coordinate for communication during emergencies. The contact details are as mentioned below:

Sr. No	Office	Contact. No.
North Goa Collectorate		
1.	Collectorate North Goa & Mamlatdar of Tiswadi	0832-2225383/ 2427690
2.	Mamlatdar of Bardez	0832- 2262210
3.	Mamlatdar of Pernem	0832- 2201223
4.	Mamlatdar of Bicholim	0832- 2362237
5.	Mamlatdar of Sattari	0832- 2374090
South Goa Collectorate		
1.	Collectorate South Goa & Mamlatdar of Salcete	0832-2794100
2.	Mamlatdar of Mormugao	0832- 2513014
3.	Mamlatdar of Sanguem	0832- 2604232
4.	Mamlatdar of Quepem	0832- 2662228
5.	Mamlatdar of Canacona	0832- 2643329
6.	Mamlatdar of Ponda	0832- 2312121
7.	Mamlatdar of Dharbandora	0832- 2614111

9. Media Management:**a) Arrangements:****Joint Information Centre for public relation:**

- The information policy for MRO must be such that it provides the details to the public, within the limits of security of actions.
- News releases must be made to the media periodically to keep the public updated on the progress of the ongoing mission.
- Early release of information may lead to situation involving unnecessary use of SAR resources and which may also demand providing more information to the news media.
- A final press release must also be made by SAR coordinator/Officer authorized by SAR coordinator when the case is concluded which summarizes the entire mission.
- Information concerning a mass rescue operation should provide to the interested media agencies and their representatives by the Public Relations Officer with the progress of the mission.
- The details of the mission may however be restricted to the prevailing directives on the security aspects.
- It must be ensured that the information release to the media does not hamper the ongoing mass rescue operation in any manner.

The various points to be considered by the Public Relations Officer prior to release are as follows:

- i. The officer releasing the information should have thorough knowledge of the ongoing mass rescue operation and the salient aspects of presenting information to the public.
- ii. Prior approval of the higher authority must be obtained before release of the information.
- iii. The details for the press information release are to be obtained from the events and personal interview with the rescued survivors.
- iv. Adequate information must also be collected on the techniques used and stage of the mass rescue operation at any particular time for the preparation of the statement.
- v. Photographs of the mass rescue operation actions on the scene and other relevant mission activities that are suitable for release must be collected.
- vi. Details of the assistance provided by the other agencies, local resources must be collected to give credit in the news information.
- vii. News releases should be written in text preferably in the format of "who, what, when, why and how" prior to meeting the press representatives. It should be easily understood, factual and news worthy.

b) Nomination:

Secretary (Revenue) / Joint Secretary (Revenue) / District Collectors will be Nodal / Public Relation Officer to deal with the media.

10. VIP Visits:

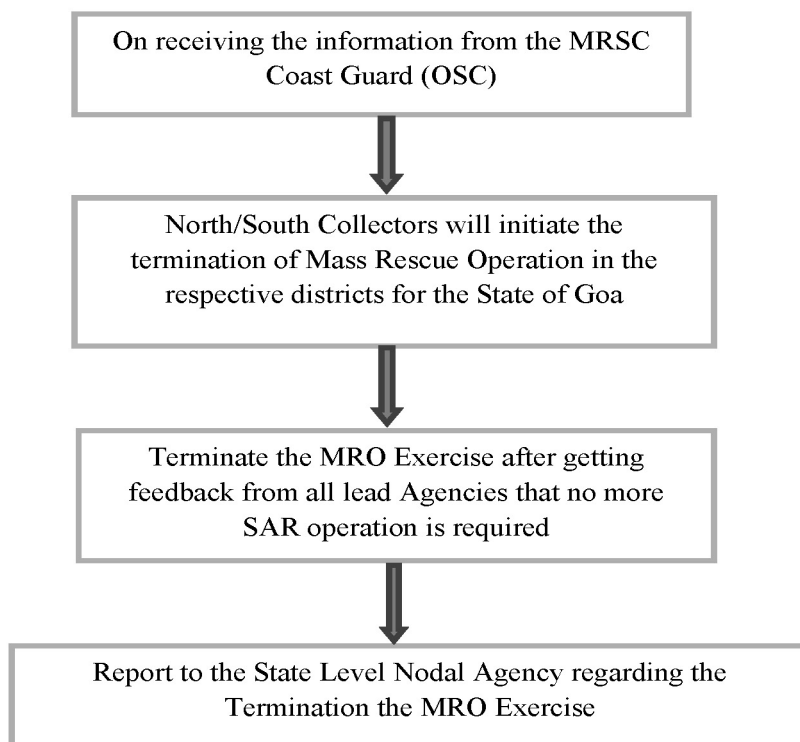
- Necessary arrangements are to be made by the District Authorities in coordination with police department.
- A proper protocol shall be followed w.r.t. VIP visits.
- A dedicated Liaison Officer shall be nominated by respective District Collectors to facilitate the VIP visits before, during and after the emergency situation.

11. Termination of MRO:

(a) Process - Conditions, initiation and authority for termination of the operation.

Based upon the status of MRO, as deemed fit the MRSC Coast Guard (OSC) shall inform the respective Collectors (North/South) to initiate the process of termination of the operation.

(b) Procedure - Actions by participating agencies on termination.



Termination Plan of MRO

The Collector as the overall commander for offshore and land area for the Mass Rescue Operation along with lead agency should clearly communicate on the termination of SAR of MRO to all concerned participating agencies involved with MRO.

Appendix -I**STATE LEVEL OFFICERS**

Sr. No.	Name & Officer's Designation	Office Phone	Residence	Mobile	Fax
1.	Shri Puneet Kumar Goel, IAS., Chief Secretary	2419401/2419402	2224908	9999892363	2415201
02.	Shri Sandip Jacques, IAS Secretary (Revenue)	2419409	----	9822104807	2419687
3.	Shri SurendraNaik, Jt. Secretary (Revenue)	2419435	2453067	9822142132	2419671
4.	Smt. Durga Naik, Under Secretary (Revenue -I)	2419446	----	9923852407	2419670
5.	Smt. Sapna S.N. Bandodkar Under Secretary (Revenue -II)	2419444	----	9766496377	2419670
6.	State Emergency Operation Centre	2419550	--	--	--
7.	Army Central Adjutant 2STC Goa	2226246/47/48	---	8975003178	2416512
8.	Commodore Ashish Goyal CSO Goa Naval Headquarters Vasco Da Gama (Diving Unit) Goa Naval Headquarters	2582866/2582200 2582202/2866294 2582202 2582200	----	----	258266
9.	DIG Arunab Bose (Coast Guard Commanding Officer Commanding officer Air, Enclave, Goa)	08322520734 Toll Free: 1554	---	9422971273	2531802/ 25205841
10.	Shri Rahul M Scientist-D & Director of I.M.D, Goa. Dr. Rajeshree V P. M , Scientist	2425547	-----	9643958464 9821794140	2420161
11.	Drishti Special Response Service, Shri. Antonio Menezes, Manager	3252854	----	9225580007	2451282
12.	Col. A.S. Asbains, 3 MTR, DavorlimNavelim	2767882/83	2767882/83	-----	-----

Appendix -II**NORTH GOA DISTRICT LEVEL AUTHORITIES**

Sr. No.	Name & Officer's Designation	Office	Mobile	Fax/Email
1	Ms. Mamu Hage, IAS Collector (North)	2225383, 2426758, 2427690, 2225083	9953462311	2426492 coln.goa@nic.in
2	Shri. Sanjeev C. G. Dessai Additional Collector-I (North)	2225383, 2426758, 2427690, 2225083	9923267335	2426492 ac1-north.goa@nic.in
3	Shri KedarNaik, Additional Collector-II (North)	2225383, 2426758, 2427690, 2225083	9823915623	2230581 2426492 ac2-north.goa@nic.in
4	Shri. Pundalik Khorjuenkar, Additional Collector-III – Bardez	2253314	9420595995	ac3-north.goa@nic.in
5	Shri Chandrakant B. Shetkar Deputy Collector (Rev)	2225383 2426759	9922356241	2426492 dycrev-north.goa@nic.in
6	Shri Chandrakant B. Shetkar Deputy Collector (LA)	2225083 2225383	9922356241	2426492 dycla-north.goa@nic.in ddma-north.goa@nic.in
7	Smt. Sandra D'Souza, Deputy Collector (DRO)	2225383	9503107728	2426492 magbr-cola.goa@nic.in
8	Shri. Archana Chodankar Mamlatdar-in-Collectorate.	2225383	9545923070	2426492 mam-north.goa@nic.in
9	Smt. Millie D. Rosario Asst. Accounts Officer	2225383	9923009733	2426492 accts-cola.goa@gov.in
10	Shri. Ajit K. Kamat Asst. Divisional Officer, North Zone.	2225500/ 2423101	9763717053	adonz-fire.goa@gov.in
11	EPBX	2225083, 1077 2225383 2426578
	CONTROL ROOM /FAX	2422059

Appendix -III**SOUTH GOA DISTRICT LEVEL AUTHORITIES**

Sr. No.	Name & Officer's Designation	Office	Mobile	Fax/Email
1	Shri. Asvin Chandru, IAS, Collector South	2794414	9361128549	2426492
2	Shri. Srinet Kothwale Additional Collector-I	2794423	9422056976	2794402
3	Shri Deepak Dessai Additional Collector –II	2794483	9422059555	2794402
4	Shri Vishal Kundaikar -III Sub District Ponda South Goa District	2311000	9850020897	2312469
5	Smt. SnehalShivramPrabhu Dy. Collector, (Revenue) South	2794317	7972610423	
6	Shri. Shri. Pradeep Naik Deputy Collector South –I	2794371	9423834456	dmc-cols.goa@nic.in
7	Shri. Shri. Pradeep Naik Deputy Collector(LA) South	2794318	9423834456	
8	Shri. Pradeep Naik (DRO), South	2794372	9423834456	
9	Shri. JeetendraBugde Mamlatdar-In-Collectorate	2794312	9881060905	2794313
10	Dr. Rajendra Borkar, Medical Superintendent, South Goa District Hospital, Margao	2421810/ 2225538	9011025031	gassu.idsp@nic.in
11	Shri Kuldakar Asst. Conservator of Forest South Goa	2750246	7798986138	
12	Shri.RajivSamant, Superintending Engineer-1(S), Margao, Electricity Department	2710676	7350644000	2735125
13	Shri. Cleasby Dias, Superintending Engineer Circle IV (PWD), FatordaMargao	2741100/ 2740907	7083867972	se4-pwd.goa@nic.in
14	Shri Rajendra A Haldankar Divisional Officer, South Zone	2714600/ 2715825	9763717051 (Director)	do-fire.goa@gov.in
15	Shri Dias Superintending Engineer,Circle VII(PHE)PWD,Fatorda	2742238	7083867972	se8pwd.goa@nic.in
16	Shri Sunil R Karmarkar, Executive Engineer, WD-III,WRD,Ponda Goa	2312093	9423883890	
17	Shri Mario Rebello, Assistant Engineer, SD-III, WD-III,WRD Gogol Margao.	2312093	9112279800	
18	Shri Raju R. Dessai Dy. Director of Panchayat South Zone, Margao-Goa.	2794275	9422063213	
19	Shri Sunil Narkar Regional Traffic Manager KRCL	2731093	9004470393	
20	Shri John Kutty GDET & Nodal Officer, BSNL.	2725953/ 2726726	9423885665 9423993396	

Appendix-IV
District Control Room

The District Control Room under the control of the District Collector will operate during mass rescue at Sea round the clock and will monitor, coordinate and implement the actions for mass rescue operation at sea.

Officer In-charge of District Control Room

District Control room shall function under the overall charge of the District Collector. In absence of the Collector, Additional Collector-II / Additional Collector-I shall be the in-charge of DCR. The Dy. Collector (in-charge CAB section) will be the Nodal Officer who will be responsible for the actual functioning and operations of District Control Room under the guidance of Collector/ Additional Collector. The Mamlatdars will be the Nodal Officer in charge of Taluka Control room. The Chain in command in the District control room shall be as follows:

Sr.No.	Designation
1.	Collector & District Magistrate
2.	Additional Collector –I
3.	Additional Collector-II
4.	Deputy Collector (L.A)
5.	Deputy Collector (Revenue)
6.	Deputy Collector (D.R.O)
7.	Mamlatdar in Collectorate.

Control Room Numbers:

1. North Goa- 0832-2225083
2. South Goa- 0832-2794100

Setup in District Control Room

It shall be the responsibility of the Deputy Collector (LA) to ensure the District Control Room is equipped with the following.

- 1) Map of the District showing all the Talukas.
- 2) District Disaster Management Plan.
- 3) List of Resource Persons with contact numbers and address.
- 4) Inventory of resource material available in the District.
- 5) Emergency Lights/ Candles etc.
- 6) Fax Machine.
- 7) Typewriter/ Computer / Printer / Scanner.
- 8) Required Stationery.

District Control Room

On receipt of early warning from any source of the Officer Incharge of the District Control Room shall;

- 1) Immediately inform the Collector, Additional Collector, concerned Dy. Collector/ S.D.M and Mamlatdar/ Joint Mamlatdar. The State Control Room shall be informed accordingly.
- 2) On getting direction from Collector/ Additional Collector he shall alert the Supdt. Of Police, Fire Service, Director of Health/ Transport /Panchayat/ Municipal Administration and other concerned offices.

Standard Operation Procedure

The S.O.P for the Mass Rescue Operation at Sea will be as follows:

- a) None receipt of information, the Revenue Officers at District, Sub Division and Taluka Level will coordinate with the line departments to tackle the issues involved and resolve the same.
- b) Control room in the respective Taluka will be activated.
- c) The Mamlatdar will prepare the identified Relief Centres to accommodate the persons affected by any type of calamities in the sea. Specific emphasis will be on provision of dry clothes, warm air blower, food, water first aid kits and emergency medicines.
- d) Captain of Ports will make the arrangement of evacuation of personnel from the sea depending on the requirement with the following types of vessel:

- i. One Inland Cruise Vessel with 300 passenger capacity.
- ii. One Inland Cruise Vessel with 50 passenger capacity.

Both above mentioned vessels are capable of venturing into the Sea upto 2 nautical miles only in fair weather.

- e) Coastal police will deploy available marine vessels for search and rescue operations. Police forces will be deployed along the coast line for monitoring the operations and communicating the same will all agencies concerned.
- f) Directorate of Fire and Emergency Services will activate the Fire stations in the Talukas and mobilize the resources from other Talukas to assist Medical Officers in Medical Triage camp for Offshore incidents.
- g) In case of Onshore incidents the DFES Team will carry out necessary Fire Fighting, Salvage or Rescue Operations as per the situation persists.
- h) The inflatable and HDPE¹¹ Boats with OBM¹² available with the Fire Department will be put in action only for incidents occurring in inland waters.
- i) Directorate of Health will provide emergency ambulance from the jetties to the identified health institutions in the proximity and as per requirements. The arrangements will also be done at the Primary and Community Health Centres, District Hospital and Goa Medical Collage Hospital to receive person requiring treatment.
- j) Directorate of Tourism will deploy lifeguards to assist in search and rescue operations. Rescue boats available with the lifeguards will be used extensively for the mass rescue.
- k) Directorate of Fisheries will instantly communicate to fisherman to restrain from fishing in the area of incident. Also fishing boats shall be kept alert and made standby to deploy their boats soon after receipt of information to assist in search and rescue operations.
- l) Directorate of Civil supplies will make arrangement of providing food grains to victims affected by Disaster.
- m) Self Help Groups-SHG's shall be roped in by Directorate of Women and Child Development for Ready to Eat food for survivors affected by disaster.

Search, Rescue, Relief and Rehabilitation:

1. Directorate of Fisheries will provide resources such as Department vessel/ Fishermen vessel/ hired boats to the site of incident at sea and assist other agencies involved in the rescue operation. The Department will ensure that all the notified jetties/ fishing ramps are kept clear to receive survivors and any further assistance needed to survivor like First Aid and drinking water will be setup to jetties and ramps.
2. Life guards, life boats and other equipment like sea worthy life buoys and jet skies will be provided through Tourism Department.
3. Directorate of Health will provide Ambulance services of all the Hospitals=
4. (PHCs, CHCs, SDHs and District Hospitals) and will be equipped with 24X7 ambulance services for referrals. Ambulances from neighbouring areas including from private health care providers will be relocated as per the emergencies.
5. Transportation services will be arranged by Directorate of Transport through KTCL, GTDC and private vehicles as pre requirement transportation of people from jetties to relief centres.
6. Primary schools, community halls and other Government Building in Talukas identified as Rescue Shelters will be equipped to handle to the rescued survivors.
7. Communication centres will be established at relief centres and control rooms at Taluka and District level to facilitate communication between the rescued person with their families.
8. Helpline numbers will be brought to the notice of all concerned through print and electronic media. The numbers will be publicized through official websites also.
9. In case of vessels carrying foreign nationals, communication will be established with the respective Consulates/ Embassies from sharing of information.

¹¹ HDPE-High-Density Polyethylene

¹² OBM-Outboard Boat Motor

Appendix-V

**LIST OF AMBULANCES UNDER DIRECTORATE OF HEALTH SERVICES
NORTH GOA:**

SR. NO	NAME OF THE UNIT/LOCATION	NUMBER OF AMBULANCE
1	ASILO HOSPITAL, MAPUSA	5
2	PHC CANSARVARNE	2
3	CHC PERNEM	3
4	CHC VALPOI	4
5	CHC SANKHALIM	2
6	PHC ALDONA	2
7	PHC CORLIM	2
8	PHC CHIMBEL	1
9	PHC BETKI	2
10	PHC BICHOLIM	2
11	PHC CANDOLIM	2
12	PHC SIOLIM	1
13	PHC COLVALE	1
14	PHC MAYEM	1
15	UHC PANAJI	3
TOTAL		33

SOUTH GOA:

SR. NO	NAME OF THE UNIT/LOCATION	NUMBER
1	HOSPICIO HOSPITAL, MARGAO	3
2	COTTAGE HOSPITAL, CHIKALIM	3
3	SDH PONDA	3
4	T. B. HOSPITAL, MARGAO	1
5	CHC CANACONA	4
6	CHC CURCHOREM	2
7	PHC BALLI	3
8	PHC CANSULIM	2
9	PHC CORTALIM	2
10	PHC CURTORIM	2
11	PHC LOUTOLIM	2
12	PHC SANGUEM	2
13	PHC NAVELIM	1
14	PHC QUEPEM	2
15	PHC DHARBANDORA	2
16	PHC MARCAIM	2
17	PHC SHIRODA	3
TOTAL		39

Appendix-VI

Incident Command System-ICS:

Incident Command System-ICS is a systematic and flexible system for management of disasters. To enhance the effective and timely response for Mass Rescue Operation at Sea, the following ICS may be referred for understanding the roles/responsibilities of the concerned stakeholders:

ICS Position	Designation of Officers	Roles / Responsibilities
(1)	(2)	(3)
Responsible Officer (RO)	Collector North Goa & Collector South Goa	<ol style="list-style-type: none"> Overall Incharge; Issue Standing Order in advance to different departments and agencies for mobilization of resources in times of emergency; Activate Incident Command Team, (ICT) at State Headquarter when the need arises; Coordinate with the Central Government for mobilisation of Armed Forces, Air Support etc. as and when required; Chairpersons, North and South Goa District Disaster Management Authorities respectively, shall be the Responsible Officers (RO) at the District level; Link Officer appointed by the Government shall officiate as the Responsible Officer (RO) in the absence of the permanent incumbent.
COMMAND STAFF		
Incident Commander (IC)	Addl. Collectors-II North Goa & South Goa	<ol style="list-style-type: none"> Establish immediate priorities, including search & rescue and relief distribution strategies; Brief higher authorities and request for additional resources, if required; Establish appropriate Incident Response; System (IRS) organisations based on the span of control and scale of the incident; Ensure that the Incident Action Plan (IAP) is prepared; Approve and authorize the implementation of IAP; Ensure that planning meetings with section heads are held at regular intervals; Authorize release of information to the media; Recommend demobilization of the Incident; Response Team (IRT), when appropriate; Deputy Incident Commander shall officiate as the Incident Commander in the absence of the permanent incumbent.
Deputy Incident Commander	Dy. Collectors (LA) North Goa & South Goa	<ol style="list-style-type: none"> Will carry out any kind of assignment given by the Incident Commander; Shall officiate as the Incident Commander in the absence of the permanent incumbent; Link Officer appointed by the Government shall officiate as the Deputy Incident Commander in the absence of the permanent incumbent.
Information & Media Officer (IMO)	District Information Officer (Information & Publicity)	<ol style="list-style-type: none"> Prepare and release information about the incident to the media agencies and others with the approval of Incident Commander (IC); Jot down decisions taken and directions issued in case of sudden disasters when the IRT has not been fully activated and hand it over to the Planning Section (PS) on its activation for incorporation in the IAP; Monitor and review various media reports regarding the incident that may be useful for Incident Planning; Disseminate necessary information to all concerned; Link Officer appointed by the Government shall officiate as the Information & Media Officer (IMO) in the absence of the permanent incumbent.

Liaison Officer (LO)	Dy. Collector Revenue of either Districts	<ol style="list-style-type: none"> 1. Maintain a list of concerned line department agencies (NGOs, etc.) and their representatives at various locations; 2. Carry out liaison with all concerned agencies including NDRF and Armed Forces and line department of State Government; 3. Keep the IC informed about the arrivals of all the Government and Humanitarian agencies and their resources; 4. Help in organising briefing sessions of all Government and Humanitarian agencies with the Incident Commander; 5. Maintain record of various activities performed by each authority / agency; 6. Link Officer appointed by the Government shall officiate as the Liaison Officer (LO) in the absence of the permanent incumbent.
Safety Officer (SO)	Dy. Director Directorate of Fire & Emergency Services	<ol style="list-style-type: none"> 1. Recommend measures for assuring safety of responders and hazardous unsafe situations and review at regularly; 2. Review the IAP for safety implications; 3. Review and approve the Site Safety Plan, as and when required; 4. Link Officer appointed by the Government shall officiate as the Safety Officer (SO) in their respective districts in the absence of the permanent incumbent.
GENERAL STAFF		
OPERATIONS SECTION CHIEF (OSC)	Superintendent of Police (North and South)	<ol style="list-style-type: none"> 1. Manage all field operations for the accomplishment of the incident objectives; 2. Deploy, activate, expand and supervise organisational elements; 3. Maintenance of On Duty Officers list; 4. Brief the personnel in Operation Section (OS) at the beginning of each operational period; 5. Prepare Section Operational Plan in accordance with the IAP, if required; 6. Consult the IC from the time to time and keep him fully briefed; 7. Determine the need for additional resources and place demands accordingly with planning section chief and ensure their arrival; 8. Ensure record of various activities performed by concerned authorities, units, groups and to maintain it; 9. Link Officer appointed by the Government shall officiate as the Operations Section Chief (OSC) in their respective districts in absence of the permanent incumbent.
Staging Area Manager (SAM)	Mamlatdar in Collectorate (North/South)	<ol style="list-style-type: none"> 1. Establish the Staging Area (SA) with proper layout; 2. Organise storage and despatch of resources received and dispatch them as per IAP; 3. Report all receipts and despatches to Operations Sections Chief and maintain their records; 4. Establish check in function as appropriate; 5. Ensure that communications are established with the ICP and other required locations e.g. different SAs, Incident Base, Camps, Relief Camps, etc. 6. Maintain and provide resource status to PS and LS; 7. Demobilise Staging Area in consultation with IC; 8. Link Officer appointed by the Government shall officiate as the Staging Area Manager (SAM) in their respective districts in absence of the permanent incumbent.
Transportation Branch Director	Addl. Director Transport	<ol style="list-style-type: none"> 1. Activate and manage difference Operations Groups like Road, Rail, Water and Air; 2. Coordinate with the Logistic Section (LS) for required resources and activate Groups of his Branch; 3. On placement of resources / requisition, Coordinate with railways, road transport, waterways and airport authorities for support as required;

		<ol style="list-style-type: none"> 4. Ensure that Organisational Assignment List is circulated among the Group-in-charge (s) and other responders of his branch; 5. Provide ground support to the air operations and ensure appropriate security arrangements; 6. Report to the Operation Section Chief and Incident Commander about progress of the Transportation Branch; 7. Prepare transportation plan as per the IAP, if required; 8. Ensure the maintenance of the Status of hired resources, their full utilization and timely release; 9. Ensure that the record of various activities performed by different operational groups (Road, Rail, Water and Air) are collected and sent to the Section concerned; 10. Link Officer appointed by the Government shall officiate as the Transportation Branch Director (TBD) in their respective districts in absence of the permanent incumbent.
Group-in-charge (Road Unit)	Assistant Dir. Transport (North/South)	<ol style="list-style-type: none"> 1. Ensure transportation of resources by Road to the affected sites; 2. Requisition additional personnel support, if required; 3. Attend planning meetings on the direction of OSC; 4. Determine coordination procedures with various destinations as per IAP; 5. Ensure proper parking locations; 6. Resolve conflicts within his Group, if any; 7. Update Road Operations plan as required and share them with higher authorities; 8. In case of accidents, inform the TBD, the local police and provide assistance in investigation, if required; 9. Ensure that mechanics are available for repair of vehicles and also ensure adequate availability of Petrol, Oil and Lubricants (POL); 10. Maintain the records of all important activities relating to the number of vehicles deployed, source of vehicles (i.e. Government or private), locations where vehicles are deployed along with resource details they are carrying, etc.; 11. Support and coordinate the Road Operations part of the Rail, Water and Air Operations as required; 12. Collect record of various activities performed by coordinator and other members and send to TBD or OSC; and 13. Perform any other duties assigned by the TBD or OSC; 14. Link Officer appointed by the Government shall officiate as the Group-in-charge (Road Unit) in their respective districts in absence of the permanent incumbent.
Group-in-charge (Rail Unit)	Asst. Traffic Manager Railways	<ol style="list-style-type: none"> 1. Work under the TBD and coordinate all Rail Operations; 2. Organise crew for Loading and Unloading; 3. Ensure safe storage and warehousing of the materials; 4. Evaluate storage locations, ensure safety and obtain guidance from the TBD, if required; 5. Coordinate with Road Operations Group for movement of resources; 6. Prepare and provide Rail Operations Summary including time of departure and arrival, destinations, resource details, etc. as and when required by the senior officers; 7. Request for additional personnel support, if required; 8. Update the TBD from time to time and seek support, if required; 9. Resolve conflicts within his Group, if any; 10. Update Rail Operations Plan;

		<ol style="list-style-type: none"> 11. Establish and maintain communications with various storage and warehousing areas, destination points and railway officers; 12. Collect record of various activities performed under IRS from Coordinator and other in-charges and send to TBD or OSC; and 13. Perform any other duties assigned by OSC or TBD; 14. Link Officer appointed by the Government shall officiate as the Group-in-charge (Rail Unit) in their respective districts in absence of the permanent incumbent.
Group-in-Charge (Water Unit)	Dy. Captain of Ports Department of Captain of Ports	<ol style="list-style-type: none"> 1. Ensure transportation of rescue teams and relief materials by motor boats / country boats or by any other water transport to the affected sites with communication facilities and a local guide for guidance with each team; 2. Requisition personnel support, if required; 3. Determine coordination procedures with various destinations as per IAP; 4. Supervise all Water Operations and related activities associated with the incident; 5. Evaluate and ensure docking or harbouring locations; 6. Resolve conflicts within his Group, if any; 7. Update Water Operations plan and share it with the higher authorities, including the LSC; 8. Arrange for an accident investigation team as and when required and cooperate with the appropriate investigating authorities; 9. Ensure availability of POL and other logistic support for boat operations; 10. Attend to the needs of the personnel working with him; 11. Collect record of various activities performed from Coordinator and other in-charges and send to TBD or OSC; and 12. Perform such other duties as assigned by TBD or OSC; 13. Link Officer appointed by the Government shall officiate as the Group-in-charge (Water Unit) in their respective districts in absence of the permanent incumbent.
Group-in-Charge (Air Unit)	Dy. Dir Dabolim Airport & Head ARFF MOPA Airport	<ol style="list-style-type: none"> 1. Provide ground support to Air Operations as per the IAP; 2. Report to TBD regarding the progress of Air Operations and work in close coordination with IC, OSC and TBD; 3. Ensure resources and supplies required for the Air Operations are available at the concerned locations; 4. Keep appropriate Maps in order to provide correct coordinates to the pilots and others involved in the Air Operations; 5. Requisition additional personnel support, if required; 6. Ensure refuelling facilities are available at the landing and take-off locations; 7. Ensure that Helibase and Helipad locations are identified and approved by the appropriate authorities; 8. Determine the need for assignment of personnel and equipment at each Helibase and Helipad; 9. Ensure identification and marking of Helibases and Helipads; 10. Ensure that the communication systems are in place; 11. Update landing and take-off schedule of Aircrafts and Helicopters; 12. Ensure preparation of the load manifest for proper loading or unloading of relief supplies; 13. Arrange for unloading and despatch or storage of relief materials that arrive at the airports, helipads and helibase. In order to keep airports operational, special attention needs to be paid to unsolicited relief supplies that may arrive. They should be immediately cleared from the operational area;

		<p>14. Ensure that proper packaging and weighing facilities are in place and used for loading of relief materials;</p> <p>15. Liaise with the road operations group for the road transportation needs;</p> <p>16. Ensure the functionality of Aircraft rescue and firefighting service at Helibases and Helipads, security, proper lights, smoke candles/devices, weighing facilities, wind direction socks, etc. are in place;</p> <p>17. Collect record of various activities performed from Helibase and Helipad-in-charge and send to TBD or OSC or IC; and</p> <p>18. Perform any other duties assigned by the TBD;</p> <p>19. Link Officer appointed by the Government shall officiate as the Group-in-charge (Air Unit) in their respective districts in absence of the permanent incumbent.</p>
Planning Section Chief (PSC)	Addl. Collector (I) (North/South)	<p>1. Coordinate with the activated Section Chiefs for planning and preparation of IAP in consultation with Incident Commander;</p> <p>2. Ensure that decisions taken and directions issued in case of sudden disasters when the PS has not been activated are obtained from the Information and Media Officer (Command Staff) and incorporated in the IAP;</p> <p>3. Ensure collection, evaluation and dissemination of information about the incidents including weather, environmental toxicity, availability of resources etc. from concerned departments and other sources. The Joint Secretary (Home) must have a databank of available resources with their locations from where it can be mobilised;</p> <p>4. Ensure that Incident Status Summary is filled and incorporated in the IAP;</p> <p>5. Ensure that Organisational Assignment list (Divisional / Group) is circulated among the unit leaders and other responders of his Section;</p> <p>6. Plan to activate and deactivate IRS organisational positions as appropriate, in consultation with the Incident Commander and Operation Section Chief;</p> <p>7. Determine the need for any specialised resources for the incident management;</p> <p>8. Provide periodic projections on incident potential;</p> <p>9. Report to the Incident Commander of any significant changes that take place in the incident status;</p> <p>10. Compile and display incident status summary at the Incident Command Post;</p> <p>11. Oversee preparation and implementation of Incident Mobilisation Plan;</p> <p>12. Maintain Duty Officers List for the day;</p> <p>13. Ensure that record of various activities performed by members of Units are collected and maintained in the Unit Log;</p> <p>14. Link Officer appointed by the Government shall officiate as the Planning Section Chief (PSC) in their respective districts in absence of the permanent incumbent.</p>
Resource Unit Leader (RUL)	Deputy Collector & SDM of concerned Taluka	<p>1. Maintain and display the status of all assigned resources (Primary and Support) at the incident;</p> <p>2. Compile a complete inventory of all resources available;</p> <p>3. Ensure and establish Check-in function at various incident locations;</p> <p>4. Update the Planning Section Chief (PSC) and Incident Commander about the status of resources received and dispatched from time to time;</p>

		<ol style="list-style-type: none"> 5. Coordinate with the various activated Branches, Divisions and Groups of OS for checking status and utilisation of allotted resources; 6. Maintain record of various activities performed and send to Section concerned; 7. Link Officer appointed by the Government shall officiate as the Resource Unit Leader (RUL) in their respective districts in absence of the permanent incumbent.
Situation Unit Leader (SUL)	Deputy Collector & SDM of concerned Taluka	<ol style="list-style-type: none"> 1. Collect, process and organise all incident information; 2. Prepare periodic future projections of the development of the incident (along with maps if required) and keep the PSC and Incident Commander informed; 3. Prepare situation and resource status reports and disseminate as required; 4. Provide authorised maps, photographic services to responders, if required; 5. Attend IAP Meeting with required information, data, documents and Survey of India maps etc.; 6. Maintain record of various activities performed and send to Section concerned; 7. Link Officer appointed by the Government shall officiate as the Situation Unit Leader (SUL) in their respective districts in absence of the permanent incumbent.
Documentation Unit Leader (DUL)	Dy. Director Panchayats (North/South) of concerned Taluka	<ol style="list-style-type: none"> 1. Ensure that all the required forms and stationary are procured and issued to all the activated sections, branches, divisions, groups and units; 2. Compile all information and reports related to the incident; 3. Review and scrutinize records and various IRS forms for accuracy and completeness; 4. Inform appropriate units of errors or omissions in their documentation, if any, and ensure that errors and omissions are rectified; 5. Store files properly for post incident analysis; 6. Maintain records of various activities performed and send to sections concerned; 7. Link Officer appointed by the Government shall officiate as the Documentation Unit Leader (DUL) in their respective districts in absence of the permanent incumbent.
Demobilisation Unit Leader (DEMOB)	Block Development Officer of the concerned Taluka	<ol style="list-style-type: none"> 1. Prepare Incident Demobilisation Plan; 2. Identify surplus resources and prepare a tentative IDP in consultation with the PSC and give priority to demobilization of surplus resources; 3. Develop incident check-out functions for Sections, Branches, Divisions and units in consultation with all Sections and send to the PS; 4. Plan for logistics and transportation support for Incident Demobilisation in consultation with LS; 5. Disseminate IDP at an appropriate time to various stakeholders involved; 6. Brief the PSC on the progress of Demobilisation; 7. Maintain record of various activities performed and send to Sections concerned; 8. Link Officer appointed by the Government shall officiate as the Demobilisation Unit Leader (DEMOB) in their respective districts in absence of the permanent incumbent.

Logistics Section Chief (LSC)	Addl. Collectors-III of respective districts	<ol style="list-style-type: none"> 1. Provide logistic support to all Incident Response effort including the establishment of Staging Area. Incident Base, Camp, Relief Camp, Helipad etc.; 2. Participate in the development and implementation of the IAP; 3. Keep RO and IC informed on related financial issues; 4. Ensure that Organisational Assignment List (Divisional/Group) is circulated among the Branch Directors and other responders of his Section; 5. Request for sanction of imprest fund, if required; 6. Brief Branch Director and Unit Leaders; 7. Constantly review the Communication Plan, Medical Plan and Traffic Plan to meet the changing requirements of the situation; 8. Assess the requirement of additional resources and take steps for their procurement in consultation with the RO and IC; 9. Maintain on Duty Officers List for the day; 10. Ensure that record of various activities performed by members of branches and units are collected and maintained in the Unit Log; 11. Link Officer appointed by the Government shall officiate as the Logistics Section Chief (LSC) in their respective districts in absence of the permanent incumbent.
Service Branch Director (SBD)	Dy. Collector DRO	<ol style="list-style-type: none"> 1. Work under the supervision of LSC and manage all required service support for the incident management; 2. Manage and supervise various Units of the Branchlike Communication Unit, Medical Unit, Food Unit and any other activated Unit; 3. Discuss with activated Unit leaders for the materials and resources required and procure the same through LS; 4. Ensure proper dispatch of personnel, teams, resources etc. as per the IAP; 5. Keep the LSC informed about the progress of Service Branch, from time-to-time; 6. Maintain record of various activities performed and send to sections concerned; 7. Link Officer appointed by the Government shall officiate as the Service Branch Director (SBD) in their respective districts in absence of the permanent incumbent.
Communication Unit Leader (CUL)	Dy. Director Directorate of Information & Technology-DoIT	<ol style="list-style-type: none"> 1. Work under the direction of the SBD; 2. Provide Communications facility as and when required; 3. Ensure that all communications equipment available are in working condition and that the network is functional; 4. Maintain the records of all communications equipment deployed in the field; 5. Ensure setting up of a message centre to receive and transmit radio, telephone and other messages from various activated Sections, Branches, Units and higher authorities and maintain their records; 6. Prepare an alternative communication plan for execution in case of possible failure of the normal communications network; 7. Prepare a plan for integration of the communications setup of the central teams; 8. Maintain record of various activities performed; 9. Link Officer appointed by the Government shall officiate as the Communication Unit Leader (CUL) in their respective districts in absence of the permanent incumbent.

Medical Unit Leader (MUL)	Chief Medical Officer (DHS)	<ol style="list-style-type: none"> 1. Work under the direction of the SBD; 2. Prepare the Medical plan and procurement of required resources as per IAP; 3. Respond to requests of the OS for medical aid, transportation and medical supplies etc. under intimation to the SBD and LSC; 4. Maintain the list of medical personnel who can be mobilised in times of need; 5. Prepare and circulate list of referral service centres to all the medical team leaders; 6. Maintain minimum level of required medicines, drug, equipment, etc. at all times; 7. Maintain record of various activities performed and send to SBD; 8. Link Officer appointed by the Government shall officiate as the Medical Unit Leader (MUL) in their respective districts in absence of the permanent incumbent.
Food Unit Leader (FUL)	Dy. Director WCD	<ol style="list-style-type: none"> 1. Work under the direction of the SBD; Supply food to: <ol style="list-style-type: none"> a) Personnel of IRT(s) at ICP, Camps, Incident Base, SA, etc., and b) Victims at the temporary shelters, relief camps etc., 2. Determine food and drinking water requirements and their transportation, and brief the SBD and LSC; 3. Maintain an inventory of receipt and dispatch of resources; 4. Maintain record of various activities performed and send to SBD; 5. Link Officer appointed by the Government shall officiate as the Food Unit Leader (FUL) in absence of the permanent incumbent.
Support Branch Director (SBD)	Taluka Mamlatdar	<ol style="list-style-type: none"> 1. Work under the supervision of LSC, and supervise the function of Resource Provisioning Unit, Facility Unit and Ground Support Unit; 2. Procure and dispatch required tactical materials and resources for operations with the concurrence of the Section Chief; 3. Participate in the planning meeting of the LS; 4. Ensure that organisation assignment list concerning the Branch is circulated to all Units under him; 5. Keep the LSC informed about the progress of work; 6. Maintain record of various activities performed and send to section concerned; 7. Link Officer appointed by the Government shall officiate as the Support Branch Director (SBD) in absence of the permanent incumbent;
Resource Provisioning Unit Leader (RPUL)	Joint Mamlatdar (II)	<ol style="list-style-type: none"> 1. Work under the supervision of Support BD; 2. Organise movement of personnel, equipment and supplies; 3. Receive and store safely all supplies required for the incident response; 4. Maintain the inventory of supplies and equipment; 5. Maintain the records of receipt and dispatch of supplies including equipment and personnel; 6. Organise repair and servicing of non-expandable supplies and equipment; 7. Participate in the planning meeting of LS; 8. Monitor the 'Kind', 'type' and quantity of supplies available and dispatched; 9. Requisition additional human resource assistance, if needed; 10. Maintain record of various activities performed and sent to Support BD;

		<p>11. Link Officer appointed by the Government shall officiate as the Support Resource Provisioning Unit Leader (RPUL) in absence of the permanent incumbent.</p> <p>12. If no Jt. Mamlatdar (II) is posted in the concerned Taluka then, Jt. Mamlatdar (I) shall perform the duties RPUL.</p>
Facilities Unit Leader (FUL)	Superintending Engineer (Building) of the respective District	<ol style="list-style-type: none"> 1. Prepare the layout and activation of incident facilities, e.g. Incident Base, Camp(s), Relief Camps (s), ICP, etc., and provide basic amenities to the responders; 2. Report to the Sup. BD; 3. Locate the different facilities as per the IAP; 4. Participate in the planning meeting of the Section, prepare list for each facilities and its requirements in coordination with the LSC; 5. Maintain record of various activities performed as per IRS and send to Sup. BD; 6. Link Officer appointed by the Government shall officiate as the Facilities Unit Leader (FUL) in absence of the permanent incumbent.
Ground Support Unit Leader (GSUL)	Motor Vehicles Inspector	<ol style="list-style-type: none"> 1. Work under the supervision of the Sup. BD; 2. Provide transportation services for field operations to TBD; 3. In case Air operations are activated, organize and provide required ground support through TBD; 4. Provide maintenance and repair services for all the vehicles and related equipment used for incident management; 5. Develop and implement the Incident Traffic Plan; 6. Inform Resource Unit about the availability and serviceability of all vehicles and equipment; 7. Arrange for and activate fuelling requirements for all transport including Aircrafts in consultation with the Sup. BD; 8. Maintain inventory of assigned, available and off road or out of service resources; 9. Ensure safety measures within his jurisdiction 10. Maintain record of various activities performed as per IRS; 11. Link Officer appointed by the Government shall officiate as the Ground Support Unit Leader (GSUL) in absence of the permanent incumbent.
Finance Branch Director (FBR)	Dy. Director Accounts	<ol style="list-style-type: none"> 1. Work under the LSC; 2. Attend planning meetings; 3. Prepare a list of resources to be mobilised, procured or hired in accordance with the IAP. Obtain orders of the competent Authority as per financial rules and take steps for their procurement without delay; 4. Ensure that time records of hired equipment, personnel and their services are accurately maintained as per Government norms for payment; 5. Examine and scrutinize cost involved in the entire response activity including the demobilisation, analyse the cost effectiveness and keep the LSC informed; 6. Ensure that all obligation documents initiated at the incident are properly prepared, completed, verified and signed by the appropriate Section Chief and BD; 7. Brief the LSC or IC on all incident related financial issues needing attention or follow-up; 8. Maintain record of various activities performed as per IRS and send to Sections concerned; 9. Link Officer appointed by the Government shall officiate as the Finance Branch Director (FBR) in absence of the permanent incumbent.

Time unit Leader (TUL)	Joint Mamlatdar (I)	<ol style="list-style-type: none"> 1. Maintain time recording of hired equipment and personnel and ensure that it is maintained on a daily basis and according to Government norms; 2. Examine logs of all hired equipment and personnel with regard to their optimal utilization; 3. Maintain record of the activities performed as per IRS and send to FBD; 4. Link Officer appointed by the Government shall officiate as the Time unit Leader (TUL) in absence of the permanent incumbent.
Compensation/ Claim Unit Leader (CUL)	Accounts Officer	<ol style="list-style-type: none"> 1. Collect all cost data and provide cost estimates; 2. Prepare and maintain a list of requisitioned premises, services, resources and vehicles, etc, with correct date and time of such requisition; 3. Follow appropriate procedures for preparation of claims and compensation; 4. Maintain record of various activities performed as per IRS and send to FBD; 5. Link Officer appointed by the Government shall officiate as the Compensation/ Claim Unit Leader (CUL) in absence of the permanent incumbent.
Cost Unit Leader (CUL)	Assistant Account Officers of respective Districts	<ol style="list-style-type: none"> 1. Develop incident cost summaries in consultation with the FBD on the basis of Cost Analysis Report; 2. Make cost-saving recommendations to the FBD; 3. Complete all records relating to financial matters prior to demobilization; 4. Maintain record of various activities performed as per IRS and send to FBD; 5. Link Officer appointed by the Government shall officiate as the Cost Unit Leader (CUL) in absence of the permanent incumbent.
Procurement Unit Leader	Taluka Mamlatdar	<ol style="list-style-type: none"> 1. Attend to all financial matters pertaining to vendors and contracts; 2. Review procurement needs in consultation with the FBD; 3. Prepare a list of vendors from whom procurement can be done and follow proper procedures; 4. Complete final processing of all bills arising out of the response management and send document for payment with the approval of the FBD, LSC, IC; 5. Brief FBD on current problems with recommendations on outstanding issues and follow up requirements; 6. Maintain record of activities performed and send to FBD; 7. Link Officer appointed by the Government shall officiate as the Procurement Unit Leader in absence of the permanent incumbent.

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